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City of Cambridge.

THE

MAYOR'S ADDRESS

AT THE

ORGANIZATION OF THE CITY GOVERNMENT

AND THE

ANNUAL REPORTS

MADE TO

THE CITY COUNCIL.

CAMBRIDGE:
PRINTED BY DAKIN AND METCALF.
1866.

City of Cambridge.

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CITY OF CAMBRIDGE.

In Common Council, January 10, 1866.

ORDERED, That one thousand copies of the MAYOR'S INAUGURAL ADDRESS, together with the ANNUAL REPORT OF THE COMMITTEE ON FINANCE, with the accompanying documents, and such other documents as have been heretofore ordered to be printed by the City Council, be printed, under the direction of the City Clerk, for general distribution.

Adopted and sent up for concurrence.

Attest : JOS. G. HOLT, *Clerk.*

In Board of Aldermen, January 17, 1866.

Concurred.

Attest : JUSTIN A. JACOBS, *City Clerk.*

CAMBRIDGE PUBLIC LIBRARY

ADDRESS

OF

HON. J. WARREN MERRILL,

MAYOR.

Gentlemen of the City Council: —

We come together to-day in obedience to the wishes of the citizens of Cambridge, as expressed at the polls, and to the requirements of the City Charter, to inaugurate our municipal government for the year 1866.

Allow me to wish you all "a happy new year." This I do, not as a formal compliment of the season, but *heartily*, with the sincere desire that it may be a year of happiness to you all, found where alone it can be found, with the blessing of God, in the honest and faithful discharge of duty.

The circumstances under which we assume the duties of our several positions are certainly auspicious. The dreadful war which carried death and suffering to so large a portion of this fair land, and which resulted in the damage or destruction of so many towns and cities, and carried bereavement and sorrow to so many homes, is ended, happily ended in victory for the Government, and in securing for us and our countrymen the inestimable blessings of "*Liberty and Union.*" Liberty is now national, slavery not even sectional. It is no longer a question, "can a free people with a republican form of government sustain and vindicate that government when assailed from within?"

Our fathers formed a more perfect Union, — their sons have *perpetuated* it, and with a cheerful confidence in Him, who was their leader and our leader, let us go forward, always contending for the right and true. And while we feel and express devout thanks to Almighty God for this great blessing which he has vouchsafed us, let us never forget the agents he has used to obtain it, — the noble men who came forward when the Union was in danger, and offered themselves to defend it! We cannot expect ever to repay them, even those who have returned so gloriously, uninjured in health or person; certainly we never can those who have given life or limb or health. But we can give them the honor which they have so bravely won, and we can prove to them the gratitude for noble deeds which I am sure fills every heart. We have in our city many who bear, and will bear to their graves, the sad marks of cannon shot and minie ball and sabre cut, and many more whose hearts have been lacerated by the cruel fortune of war. It has been my happiness during the last year, with other members of the City Government, to minister to the wants of many such, and I do not doubt you will with cheerful alacrity furnish the means to do what little we can to remove or alleviate their sufferings.

I had the honor, in my last address to the City Council, to suggest the propriety of some monument to the memory of the brave men of Cambridge, who were among the first to spring to arms, and who, through all the war, were found where duty called them, and at the last were among the foremost to carry the flag and the authority of the United States into the very metropolis of treason. The Legislature of Massachusetts has given the several cities and towns of the Commonwealth the authority to tax the citizens for this purpose, and I am sure that they would be glad to have such a memorial erected, that their children and children's children might see that we were not unmindful of the splendid service which Cambridge soldiers have rendered.

The last City Council authorized me to cause to be prepared a Roll of Honor, on which should be inscribed the names and service of all Cambridge men who have served their country in the army or navy,

and such a roll is now in process of construction. There are already entered upon it the names of eleven hundred men, and when completed, it will be deposited in the City archives, an object of pride to all who shall come after us.

PUBLIC SCHOOLS.

The inhabitants of Cambridge have always regarded with special interest the Public Schools of the City. For their support they have expended a large part of the money raised by taxation, and a more intimate acquaintance with those schools enables me to express the opinion that it is money well spent. Under the fostering care of the last most excellent School Committee, they have made steady progress, and are to-day in most satisfactory condition. No better proof could be given of the importance attached to public instruction by our fellow-citizens than the fact that, during the war which taxed our pecuniary resources so heavily, we expended over sixty thousand dollars for a new high school-house. I am glad to inform you that its use during the last year has demonstrated the excellence of its arrangement, and under the care of its able corps of teachers, the school has much improved and is an honor to the city which fosters it.

During the year it will be absolutely necessary to build at least two primary schoool-houses; the one in Ward One, the other in Ward Two. These were asked for by the School Committee last year, and plans for them were presented; but the demands on the treasury were so large that it was decided to postpone their erection to this year. I recommend that an appropriation be made for this purpose. The increase of compensation to the teachers, recently voted by the School Committee, will also render a considerable increase of appropriation necessary.

PUBLIC STREETS AND SQUARES.

The gradual improvement of the streets of our city has been very considerable, and noticeable for many years past, and although in consequence of the severe drought the past summer, and the consequent waste of the surface material, they are not in so good

order as usual, they are, so far as the carriage-way is concerned, in the more frequented parts, in fair condition. I cannot say as much of the sidewalks. I find that people who visit Cambridge, with an idea of permanent residence, pronounce the foot-ways worse than in any city in this vicinity, and I think the opinion well founded.

I know of no way in which we can add so much to the many and almost unrivalled attractions of Cambridge as a place of residence, as by a liberal expenditure of money in making new and repairing old sidewalks, and in laying crossing stones. Considerable progress has been made during the last season in setting edge-stones. I call particular attention to those streets where the grade of the roadway has been raised in the centre and the sides left in their original condition. The danger is considerable to those who are called to travel them on dark nights, and I think money is better expended in properly making the street than in paying for broken bones and shattered carriages.

The city has now control of all the bridges that lead from it save one. I think some steps should be taken to remove the toll from that one. I have reason to think that the town of Brookline would join us in an attempt to get possession of the bridge between us, and would assume its fair share of the expense of keeping it in repair.

CAMBRIDGE CEMETERY AND THE BURIAL GROUNDS.

During the year just past, the Commissioners of the Cambridge Cemetery have purchased for the City about twelve acres of land on the bank of Charles River, and added it to our beautiful burying place. I think the natural beauties and advantages of this spot are not excelled by any of the rural cemeteries of the land, and when it shall have been properly laid out and graded, and embellished with trees and shrubs, it will be a very attractive spot in which to bury our dead. The process of removal of the dead from the ground in Ward Two has been going on during the summer and fall, and already seven hundred bodies have been care-

fully taken up, and a large share of them re-interred in the new cemetery. It is the intention of the Commissioners to complete the work in the spring, and I suggest that a considerably larger appropriation will be necessary to prepare the new ground and grade the old one.

The Commissioners have been so careful of the feelings of friends who have had removals made, and so liberal are the terms on which they have been made, that there has been little or no opposition to the plan, and they do not anticipate any. It has been suggested that the square in Ward Two, which by the act is to be forever kept open for the use of the public, would be a suitable spot on which to erect a monument to the memory of the brave men who have lost their lives in the late war. As it is near the territorial centre as well as the centre of population, I think it the most satisfactory spot that could be selected.

WATER WORKS.

During the year the City has purchased the real and personal property of the Cambridge Water Works; and the City Council by Ordinance has placed them in the care of a Board of Commissioners, consisting of five citizens, together with the Mayor and President of the Common Council. Since the Board took charge of the work, it has been diligent in devising and executing plans for their repair, improvement, enlargement, and extension. A new well-room of a solid and durable character has been constructed, with an additional inlet; the reservoir has been cleaned and an additional outlet put in; fifteen hundred and fifty-nine feet of street pipes have been laid, and one hundred and one new supply pipes put in. Some progress has been made towards the construction of an additional reservoir, and the spring will enable us to finish it and add some five feet in height to the present one, thus increasing our capacity for the storage of water some threefold.

As the City has, by authority of the Legislature, undertaken to supply its citizens with pure water, and has used the credit of the

City for the purchase, I think it is but just that such extensions and enlargements should be made as will afford to all who may desire it, in any and all parts of the City, "a copious supply of pure water." I have no doubt that if the present rates are continued (with such slight modifications as experience will suggest) and if efficient means are used to prevent the waste of water, the net income will pay the interest on the cost of purchase and extension, and the one per centum of the principal of the Cambridge Water Loan required by the act to be set aside as a sinking fund. It seems to me desirable that a plan should be at once matured, that will enable us to distribute all the water which the present pumping apparatus, under the most favorable circumstances, can deliver into the reservoir.

The Water Board has full authority to devise such a plan and to call to its aid the technical skill and experience which the members may need or desire. And I doubt not that, at an early day, the Board will present to you, gentlemen, such a plan, with reliable estimates, as will meet your approbation and secure the necessary appropriation.

The pumping apparatus is most effective, and, in the judgment of those who are acquainted with it, is good for ten years' future service; and by enlarging the pipe from the pump to the reservoir, and running it day and night, it can furnish two million gallons per day of twenty-four hours.

In my judgment it would not be economical to lay down, at present, mains that could convey with a good head more than this quantity of water; and briefly for two reasons: First, that not more than that quantity of water will be required during that time; and secondly, that any expenditure of money made for pipes not required until new pumps are put in, would be lost in interest, as money doubles itself, at 7 3-10ths compound interest, in that time. When, from whatever cause, it is deemed necessary to put in new and larger pumps, then other main pipes can be put down, sufficient to convey the water which they will raise. I must add that these convictions have been formed without such an examination by experts, of the present works, and of the requirements of the City, as I think should be made before any definite plan is settled upon.

FIRE DEPARTMENT.

The Fire Department is in most excellent condition. The change from hand to steam fire engines has proved a great improvement, in efficiency and economy, and I recommend the purchase of an additional steamer this year, and the abolition of the remainder of the hand engines. With the four steamers and the electric fire alarm, I should feel that the City was safer from conflagration than ever before. During the year just past, the subject of a telegraphic fire alarm was considered by a most competent committee, and I believe it was the opinion of every member of that committee, after a thorough and most patient examination of the whole subject, that a complete fire alarm, such as has been put up in many large cities of the country, would pay for itself in a short time, in the saving of wear and tear to the apparatus of the department, and in the property it would be the means of saving. I think there is no city, which has used it for a single year, that would part with it for four times its cost.

A considerable item in the expenditure of the department is for hay, straw, and grain, and I think it worthy of consideration if these could not be purchased in quantities, or supplied by contract for this department, as well as for the city stables. The cost of these items in 1864 was $5,650, and for 1865 about $7,000. I recommend that the disused engine house at the junction of Harvard and Main streets be disposed of.

PUBLIC MARKET.

The attention of the public has recently been drawn to the high prices of provisions, and complaints, which it seems to me are well founded, are made, that we are obliged to pay several profits on farm products before they reach the consumer. This seems to me largely due to the fact that sufficient facilities are not provided by the public for the producers to market their products. It is well known that large quantities of vegetables, fruits, meats, &c., are daily conveyed through our streets from the farms and gardens of the towns to the

north and west of us, and are sold to the middle-men in Boston, and are then purchased at a profit by our own dealers, who must make another profit before they reach our tables. Wherever this is the course of trade, the price of provisions must be high, and the poorer and middle classes must find it hard to live. It is not so much the additional profit made by the dealers in a legitimate way, but the opportunity afforded for speculation and monopoly, that is objectionable. This is a subject in which all classes are interested. Cheap food goes far towards making a community happy and prosperous.

The attention of manufacturers is largely turned toward our unoccupied land, and good markets are indispensable to successful competition in that department. Here is a subject of much more practical importance to the laboring man than that of how many hours shall constitute a day's labor. I suggest that a convenient location be purchased or leased in each police district, and a suitable covered building, with open sides, be erected, up to which the farmers and butchers of our own city and the neighboring towns could back their wagons, and under which they could dispose of their goods to *consumers*, *rent free.*

I have reason to believe that many would gladly avail themselves of the opportunity, saving to themselves the carting for several miles, and giving us fresh provisions. I should not propose to have these markets always open, but it might be market day at Old Cambridge two days in the week; at East Cambridge two days, and at the Port two days. I think it wise to try the experiment at least in one of these locations.

I called attention in my last address to the policy of establishing a Superintendent of Public Buildings. The experience of the year confirmed me in the belief that the best interests of the City would be subserved by appointing such an officer. I think he should be a practical mechanic, who should be capable of superintending the erection of a school house, or other public buildings, and who could himself make many of the repairs and changes constantly wanting in public buildings.

I also called attention to the practice of some of the Committees of

the City Council of making purchases of their own members. I think the practice liable to great abuse, and even when the interests of the City do not suffer, unpleasant suspicions are excited, and as the members of both branches profess to serve the City without compensation, I recommend the enactment of an ordinance forbidding the purchase of any articles on account of the City of any member of the City Government or of any of the Boards connected therewith.

I see no advantage commensurate with the trouble of keeping the Bridge Fund as a separate fund. The bridges belong to the City, and the City is bound to keep them in repair; and I recommend that the Board of Commissioners of the Bridge Fund be abolished, and the fund merged in the general funds of the City.

THE POOR.

Among the important duties which devolve on the City Government, none, in my judgment, should be more carefully discharged than that of providing for the necessities of the poor. In the providence of God, many are placed in circumstances where they cannot provide for themselves.

This is often by no fault of their own, and in such cases is no crime; and we owe it to such that they be properly and kindly cared for. We are assured, on the highest authority, that we have ever the poor with us, and if we will we may do them good. Since the close of the war, the number of the worthy poor is largely increased, and although our citizens are ever ready to respond to their claims when properly authenticated and presented, there are many whom the City is bound by every consideration of gratitude and philanthropy to provide for.

If poverty, then, is only a misfortune, I see no reason why its subjects should be treated as criminals. By an ordinance of the City the Poor House is made a workhouse, and intemperate men and lewd women and bad children are sent there, to associate with the unfortunate though virtuous poor.

This so outrages my sense of justice, and is so insulting to the

humble victims of poverty, that I am not surprised that many of the most respectable victims of misfortune will not go there, until it becomes a question of starvation or the Poor House. It should be no disgrace to go to the home which our fellow-citizens have provided for us, when it is out of our power to provide for ourselves.

But it is felt a disgrace to be housed with criminals, and to be obliged to sit with them and eat with them, and have them for daily companions. I cannot think it is doing as we would be done by, should destitution become our lot; and none of us are sure it will not some day fall to us. I recommend the repeal of the ordinance making the Poor House the place of confinement for those who should be sent to the House of Correction.

POLICE.

The Police of our City have been, during the year, vigorously and patiently engaged in preserving the peace of the inhabitants, and in bringing to punishment those who offend against the laws; and I believe the City has been as quiet and orderly as any in the Commonwealth.

I think some change in, and some addition to, the force would enable us more effectually to stop truancy, and consequent juvenile crime. I am convinced that we should have at least one day-officer in each police district, whose first duty should be to see that all the children are at school who should be. At present, some of the truant officers are night-watchmen, and when they are most needed to look after truants, they are very properly taking their rest in bed. Others have station and police court duty to perform at the very time they are needed to look after truants.

Truancy is often the beginning of a course of crime, and even when vicious habits are already formed, regular attendance at school does much to break them up. The Board of Aldermen, near the close of last year, authorized me to increase the regular force; and I shall be prepared to nominate to the new board one additional day-man and one night-man for each district. I have also been authorized

to cause an examination of the City to be made, to ascertain its sanitary condition, in view of the imminence of the Asiatic cholera. I propose to use a part of the Police force to do a share of this work.

FINANCE.

It appears by the Report of the Committee on Finance, that the expenditures for the past year have amounted to .	$536,911.82
In addition to which there have been issued Cambridge Water Bonds to the amount of	201,200.00
And the City has assumed the payment of the bonds of the Cambridge Water Works to the amount of .	40,200.00
And has given up the bond of the Cambridge Water Works, ...	50,000.00
	$828,311.82
The receipts for the year, exclusive of loans and including cash in the treasury Dec. 1, 1864, is .	628,945.60
Being an increase of liabilities of	$199,366.22
The expenditures include the purchase of the Cambridge Water Works, ...	$291,480.00
And of about twelve acres of land for the enlargement of the Cemetery, ...	10,922.33
	$302,402.33
The amount of the City debt proper is . . .	833,092.00
Cash on hand Dec. 1, 1864, was . . .	84,158.71
" " " 1, 1865, was	115,338.96
The amount of valuation of estates, as appears by the Assessors' books, is	$26,085,900.00
To which must be added the value of stocks in corporations valued and taxed by the Commonwealth,	2,500,000.00
Making a total of valuation of	$28,585,900.00

Thus placing, if I am rightly informed, our City as the second in point of wealth in the State.

It appears by the census, which has been taken during the year, that we have a population of 29,114

And ratable polls to the number of 7,264

Thus showing an average to each man, woman, and child, of $985.29

And to each tax-payer of $3,935.28

Since the commencement of the war there has been a regular increase of the city debt for purposes which have not added to the city property. I think the time has come when this should cease. For the extension of the Water Works, I think a loan should be effected to the full amount of the cost, and that the rates for water should be such as to pay all current expenses, including interest, and such a sum into the sinking-fund as will eventually pay the Cambridge Water Bonds; but for all ordinary expenses, including the building of school-houses, in my judgment, provision should be made by taxation, as also for the gradual extinction of the debt.

I think I discover an increasing tendency to extravagant expenditure, growing out of the fact that the several committees and superintendents, to whom the care of the various departments of city affairs are committed, have of late assumed to make large expenditures without authority of the City Council. I think this is liable to great abuse, and I hope that at an early day the powers and duties of the superintendents and of the several committees will be defined by an ordinance. The power to make small expenditures for repairs and for exigencies which forbid a vote of the City Council, is essential to the efficient working of the several departments; but considerable expenditures for enlargements and improvements, and for extensive repairs, or salaries of persons permanently employed, should receive the sanction of the City Council.

J. WARREN MERRILL.

CAMBRIDGE PUBLIC LIBRARY

REPORT

OF

THE COMMITTEE ON FINANCE.

The Joint Standing Committee on Finance respectfully submit to the City Council their

ANNUAL REPORT.

The amount of appropriation made at the commencement of the year was $572,475. This was subsequently reduced by a vote of the City Council by $40,000, and afterwards increased by $8,000; making a total of appropriations of $540,475. Of this there remained unexpended on the 30th of November, $3,563.18.

This expenditure includes $19,291.18 for the Water Works, and $10,922.33 for purchase of land to enlarge the Cemetery, — neither of which was provided for in the original appropriation. The actual expenditure for the year is $536,911.82. A detailed abstract of this expenditure, as charged to the several appropriations, has been prepared by the Auditor, and is herewith transmitted.

The accounts of the Treasurer have been examined by a sub-committee of this Committee, and their report, which has been accepted, with a schedule of notes and bonds due from the City, is also transmitted.

The Treasurer's accounts show a balance in his hands of $115,338.96.

There has been paid on the permanent loans of the City, to sundry institutions and individuals the sum of	$127,656.00
Amount carried forward	$127,656.00

Amount brought forward,		$127,656.00
And there has been contracted a loan with N. E. Mut. L. Ins. Co. of .	$50,000.00	
And with the Commissioners of the Bridge Fund of	41,000.00	
		91,000.00
Making a decrease of ordinary City debt of . .		$36,656.00
The City has issued its obligations under the name of the Cambridge Water Loan, for the purchase of the Cambridge Water Works, to the amount of	$201,200.00	
And has assumed the payment of the Bonds of the Cambridge Water Works to the amount of	40,200.00	
Making a total of increase		$241,400.00
Decrease of ordinary City debt		36,656.00
Making a total of increase of		$204,744.00
The total receipts from all sources, including permanent and temporary loans, was		$815,986.89
The balance in Treasurer's hands December, 1, 1864, ...		84,158.71
Making a total of		$900,145.60
The total payments, including those of permanent and temporary loans, was	$784,806.64	
And the amount in Treasurer's hands December 1, 1865, ...	115,338.96	
Making a total of		$900, 145.60
The amount of the City debt proper on the first of December, 1865, including the Water Bonds, was		$833,092.00
Amount carried forward,		$833,092.00

Amount brought forward,		$833,092.00
And in addition to this the City has taken		
from the Bridge Fund, . . .	$112,000.00	
" Sanders " . .	10,000.00	
" Dowse " . . .	10,000.00	
		$132,000.00
All of which they are not liable to reimburse, but the interest is payable on the Sanders and Dowse Funds.		
The State tax due next year is . .	$118,487.00	
" County " " " " .	18,280.90	
Interest due and not called for, . .	1,292.00	
Bills approved, " " . .	1,630.23	
		$139,690.13
Whole amount of indebtedness, . . .		$1,104,782.13
To meet this there is a balance of cash in Treasury, ...	$115,338.96	
Taxes uncollected, 1865, . .	37,487.13	
" " for previous years, .	4,508.90	
Uncollected drain taxes, . .	921.14	
Due from Commonwealth for reimbursement for sums paid Volunteers and their families, 1864, estimated, .	$65,000.00	
Same in 1865, estimated, . .	47,000.00	
State Corporation Tax, estimated, . .	24,000.00	
Bridge Fund loaned sundry persons, secured by mortgage, ...	11,000.00	
		305,256.13
Balance of indebtedness over cash assets, . . .		$799,526.00
To meet this indebtedness the City owns		
The Cambridge Water Works, ...		$290,359.60
The Common and Public Squares, Gravel Farm, Cemeteries, &c., and the following real estate:		

DISTRICT 1.

North Av.	Almshouse, and out-buildings, . .	$25,000.00
" "	" Farm of 37 acres, including Stone Ledge, . .	25,000.00
North Av.	Shepard School House, exclusive of land, Lot, 12½ cts. per ft.	20,000.00
Concord Av.	Dunster School House, . . . Lot, 12½ cts. per ft.	3,500.00
Brattle St.	Washington School House, . . Lot, 35 cts. per ft.	24,000.00
Church St.	Engine House, Ward 1, No. 1 Steamer, Lot, 75 cts. per ft.	3,800.00
" "	Police Station, Ward 1, . . . Lot, 75 cts. per ft.	4,300.00
North Av.	Engine and Station House, Ward 5, Lot, 12½ cts. per ft.	3,000.00

DISTRICT 2.

Broadway.	High School House Building, . . Lot, 25 cts. per ft.	$50,000.00
Amory St.	Felton School House, . . . Lot, 15 cts. per ft.	11,000.00
Boardman St.	Allston School House, . . . Lot, 17 cts. per ft.	27,000.00
Broadway.	Sargent School House, . . . Lot, 20 cts. per ft.	4,500.00
State St.	Mason School House, ... Lot, 25 cts. per ft.	3,500.00
Webster St.	Webster School House, . . . Lot, 14 cts. per ft.	26,000.00
School St.	Boardman School House, ... Lot 20 cts. per ft.	300.00
Harvard St.	Harvard School House, . . . Lot, 25 cts. per ft.	5,500.00
Centre St.	Dana School House, ... Lot, 20 cts. per ft.	4,000.00

Pioneer St. Pioneer Primary School House, . .	$1,300.00
Lot, 18 cts. per ft.	
Columbia St. Gannett School House, . . .	2,000.00
Lot, 10 cts. per ft.	
Main St. City Hall Building, ...	22,000.00
Lot, 50 cts. per ft.	
Hampshire St. City Stables and other buildings, . .	2,000.00
Lot, 12 cts. per ft.	
Main St. Pioneer Engine House, ...	800.00
Lot, 25 cts. per ft.	
" " Engine House No. 2, and Hook and Ladder,	4,000.00
Lot, 35 cts. per ft.	
River and Western Av. Engine Ho. No. 4 and Station,	3,000.00
Lot, 35 cts. per ft.	

DISTRICT 3.

Otis and Fourth Sts. Putnam School House, . .	$25,000.00
Lot, 50 cts. per ft.	
Thorndike St. Thorndike School House, . .	22,000.00
Lot, 28 cts. per ft.	
Otis St. Otis School House, ...	14,000.00
Lot, 35 cts. per ft.	
Third St. Third Street School House, . . .	1,500.00
Lot, 35 cts. per ft.	
Cambridge St. Engine House, No. 3 Steamer, . .	2,800.00
Lot, $1.00 per ft.	
Fourth St. Police Station, Ward 3, . . .	500.00
Lot, 50 cts. per ft.	
Thorndike St. Vacant Lot of Land on Thorndike St., 33 cts. per foot.	

The taxes assessed for the year 1865 were, —

For City purposes, ...	$267,708.60
" State Tax, ...	118,487.00
" County Tax, ...	18,280.90
Amount carried forward,	$404,476.50

Amount brought forward,		$404,476.50
For sundry poll taxes assessed subsequent to the general assessment, under the provisions of the 68th chapter of the Acts of the year 1865, . . .		16.00
		$404,492.50
Of the above tax the amount collected is	$348,556.75	
Discounted, ...	14,192.55	
Abated, ...	4,256.03	
		367,005.33
Balance uncollected, ...		$37,487.17
Of the tax of 1864 there remained uncollected, December 1, 1864, ...		$21,318.17
Of that amount there have been collected,	$17,564.56	
Discounted, ...	6.98	
Abated, ...	472.90	
		18,044.44
Balance uncollected, ...		$3,273.73
Of the tax of 1863 there remained uncollected, December 1, 1864, ...		$2,954.80
Of that amount there have been collected,	$1,040.01	
Abated, ...	1,798.01	
		2,838.02
Balance uncollected, ...		$116.78
Of the tax of 1862 there remained uncollected, December 1, 1864, ...		$664.23
Of that amount there have been collected,	$22.00	
Abated, ...	102.70	
		124.70
Balance uncollected, ...		$539.53
Of the tax of 1861 there remained uncollected, December 1, 1864, ...		$599.28
Of that amount there have been collected, . .		20.42
Balance uncollected (probably worthless), .		$578.86

The amount of drain assessments remaining uncollected, December 1, 1864, was	$1,693.58
Of that amount there have been collected, . .	772.44
Balance uncollected, ...	$921.14

The valuation of estates, as appears by the Assessor's books for the year 1865, is as follows:

District.	Wards.	Polls.	Real Estate.	Personal Estate.	Total.
I.	1 & 5,	1,739	$6,782,900	$4,251,400	$11,034,300
II.	2 & 4,	3,181	6,985,200	3,769,800	10,755,000
III.	3,	1,674	3,008,400	1,288.200	4,296,600
Total,		6,594	$16,776,500	$9,309,400	$26,085,900

The above does not include the property in the City held in certain Corporations which is now taxed by the State. These were deducted by the Assessors in their assessment in May last, in conformity to the law of the Commonwealth, and, as estimated, amount to not less than $2,500,000. As the tax on this sum will be refunded to the City, this amount should be added to the above, which will increase the total valuation to $28,585,900.

Cambridge is now the second city in point of wealth in the State. The amount received from the State for corporation stock, owned in our City, taxed by the State for 1864, was $33,709.70.

The rate of assessment the past year has been $15.00 per thousand, subject to the discount of four per cent. on all taxes paid on or before October 10th. Interest is charged as per statute on all taxes not then paid.

J. WARREN MERRILL,
JOHN LIVERMORE,
CHARLES F. CHOATE,
JOHN S. MARCH,
N. P. BROOKS,
ARTHUR MERRILL,
ROBERT O. FULLER,
A. C. SANBORN,
AUGUSTUS TOWNE,

Committee on Finance.

CAMBRIDGE, December 20, 1865.

REPORT

CONCERNING

THE ACCOUNTS OF THE TREASURER.

In Committee on Finance, December 22, 1865.

The Sub-Committee appointed by the Committee on Finance to examine the Accounts of the City Treasurer for the financial year commencing the first day of December, 1864, and ending on the last day of November, 1865, have attended to the duty assigned them, and submit the following

REPORT:

Your Committee find that the accounts of the Treasurer have been correctly kept, and he has satisfactory vouchers for all payments made by him, according to the schedule herewith submitted.

They also submit a schedule of notes and bonds due from the City, together with a copy of the Treasurer's account, which shows a balance in his hands of $115,338.96.

All which is submitted.

CHARLES F. CHOATE,
JOHN S. MARCH,
A. C. SANBORN,
ROBERT O. FULLER,
} *Sub-Committee on Finance.*

SCHEDULE OF EXPENDITURES

FOR

THE FINANCIAL YEAR ENDING NOV. 30, 1865.

For Instruction in Public Schools.

Salaries of Teachers, . . .		$58,394.83	
			$58,394.83
Appropriation, .	$58,000.00		
Additional do., .	394.83		
		$58,394.83	
Amount of Expenses, . .		58,394.83	

For Hopkins Fund.

Books, ...		$133.69	
			$133.69
Appropriation, . .		$800.00	
Amount of Expenses,	$133.69		
Transferred, .	666.31		
		$800.00	

For Compensation to School Committee.

School Committee, ...		$1,100.00	
			$1,100.00
Appropriation, .	$1,075.00		
Additional do., .	25.00		
		$1,100.00	
Amount of Expenses, .		1,100.00	

For Care and Repairs of School Houses.

Rent of halls for school-rooms,	$300.00
School furniture,	850.40
Fuel,	6,222.44
Care of houses, fires, &c.,	3,356.67
Gravel,	120.70
Lumber and lime,	432.85
Repairs,	3,455.58
Furnaces, stoves, and repairs,	725.33
Clocks and repairs,	64.00
Carpets, shades, and fixtures,	78.53
Mats, ink, hardware, &c.,	555.73
Books and stationery,	1,281.06
Printing and advertising,	395.40
Engraving and printing diplomas,	24.00
Postage stamps and envelopes,	10.99
Collecting statistics,	5.00
Water-rates,	297.83
Truckage,	4.34
Ringing bell,	8.00
Heating and ventilating apparatus at new High School-house,	1,154.56
Repairs on do.,	252.40
Philosophical apparatus,	963.61
Steam-pump,	250.00
Chemicals,	99.99
Telescope,	285.00
Gas,	20.35
Gas-fixtures and repairs,	44.31
Carpenter's work and materials,	400.43
Mason-work,	98.29
Plumbing,	114.52
Tinning roof,	76.57
Flag-staff,	29.32
Trees,	116.00
Labor,	92.75
Amount carried forward,	$22,186.95

Amount brought forward,		$22,186.95	
Surveying lot,		10.00	
Measurement of dirt-carts,		3.00	
Water used in grading,		14.00	
			$22,213.95
Appropriation,	$20,000.00		
Additional do.,	2,225.00		
		$22,225.00	
Amount of Expenses,		22,213.95	
Balance unexpended,		$11.05	

For Almshouse and Stone Ledge.

Warden, salary,	$500.00
Matron, "	100.00
Physician, "	100.00
Chaplain, "	75.00
Clerk of overseers, salary,	50.00
Overseer in sewing room, salary,	90.00
Provisions, groceries, and supplies for the house,	5,987.66
Dry goods and clothing,	1,056.60
Boots, shoes, and brogans,	300.20
Sundry laborers,	3,797.85
Fuel,	829.57
Fuel delivered to poor out of the house,	1,163.60
Goods " " " "	461.21
Medicine " " "	36.81
Medical attendance " "	39.50
State Lunatic Hospital, board of patients,	251.34
City of Boston, board of patients,	344.50
" Worcester, support of paupers,	202.00
" Charlestown, " "	24.00
" Boston, " "	215.00
Town of New Braintree, support of paupers,	163.01
House of Correction, " "	26.57
State Reform School, " prisoners,	505.87
Removing paupers,	37.75
Amount carried forward,	$16,358.04

Amount brought forward,		$16,358.04
Repairs,		110.18
Carts and repairs,		328.69
Harnesses and repairs,		113.37
Horses,		868.00
Cows and calves,		255.00
Hogs,		25.00
Grain and meal,		1,227.38
Hay and straw,		162.54
Horse-hire,		2.00
Horse-shoeing and iron work,		127.36
Lumber, lime, &c.,		192.13
Whitewashing,		25.00
Paints, hardware, pump, &c.,		277.26
Stoves, tin ware, &c.,		51.58
Furniture and carpets,		150.94
Organ for chapel,		150.00
Crockery ware,		23.44
Agricultural tools, seeds, &c.,		322.33
Manure,		93.00
Veterinary attendance,		17.00
Fishery and rent of land,		50.00
Powder and fuse,		117.75
Cast-steel,		45.46
Books and newspapers,		6.78
Printing,		17.50
Medicine,		81.59
Funeral expenses,		272.20
Services as nurse,		10.00
		$21,481.52
Appropriation,	$20,500.00	
Additional do.,	1,100.00	
	$21,600.00	
Amount of Expenses,	21,481.52	
Balance unexpended,		$118.48

For Police and Watch.

Chief of Police, salary, . . .	$1,018.13	
Services of police officers, including substitutes and special police, . .	20,431.25	
Conveyance of prisoners, . . .	555.65	
Supplies for prisoners and lodgers, . .	34.05	
Gas for watch-houses, . . .	114.26	
Fuel, ...	248.45	
Repairs, ...	141.68	
Mattresses and shades, ...	38.85	
Revolvers and billies, . . .	68.00	
Stationery, oil, &c.	57.57	
Water-rates	39.00	
Medical attendance at station, . . .	6.50	
Cleaning station, ...	10.50	
Horse-hire, ...	12.00	
Damage to cattle in pound, . . .	50.00	
Burying dead animals, ...	7.25	
		$22,833.14
Appropriation, ...	$24,000.00	
Amount of Expenses, .	22,833.14	
Transferred, . .	1,150.00	
	$23,983.14	
Balance unexpended, . .	$16.86	

For Fire Department.

ENGINEERS.

Chief Engineer, salary, . . .	$450.00	
Assistant Engineers, salary, . . .	374.16	
Clerk of Engineers, " . .	25.00	
		$849.16
Amount carried forward,		$849.16

Amount brought forward,		$849.16

ENGINE COMPANY NO. ONE.

Company's bill, services,	$2,685.38	
" " fines of members,	15.50	
" " fuel and lights,	1.00	
Fuel,	127.80	
Furniture, carpet, mattresses, &c.,	423.88	
Steam fire-engine,	3,252.00	
Stove and boiler,	77.00	
Grain and meal,	727.73	
Repairs,	282.52	
Oil, brooms, cotton waste, &c.,	58.99	
Gas,	47.36	
Water-rates,	18.00	
Racks in stable,	10.00	
Horse-shoeing,	71.55	
Washing bed-clothes,	23.75	
Truckage,	23.05	
		7,845.51

ENGINE COMPANY NO. TWO.

Company's bill, services,	$2,704.18	
" " fines of members,	13.50	
Grain, meal, hay, and straw,	679.30	
Oil, mats, hardware, &c.,	103.49	
Repairs,	208.12	
Fuel,	207.90	
Gas,	60.75	
Wheel-box, &c.,	45.00	
Horse-shoeing,	66.41	
Medicine for horses,	29.77	
Bed-clothes and washing do.,	46.86	
Water-rates,	20.00	
Truckage,	8.20	
		$4,193.48
Amount carried forward,		$12,888.15

Amount brought forward,		$12,888.15

ENGINE COMPANY NO. THREE.

Company's bill, services,	$2,573.13	
" " fines of members,	14.50	
Furniture for engine-house,	33.80	
Block and grate,	40.00	
Grain, meal, hay, and straw,	472.53	
Fuel,	265.14	
Repairs,	308.75	
Gas,	80.63	
Water-rates,	18.00	
Oil, matches, &c.	37.84	
Horse-shoeing,	20.92	
Washing and repairing bed-clothes,	38.38	
Truckage,	.50	
		3,904.12

ENGINE COMPANY NO. FOUR.

Company's bill, services,	$1,140.16	
" " fines of members,	18.00	
" " fuel and lights,	12.50	
Fuel,	14.21	
Repairs,	39.28	
Oil, brooms, &c.,	2.55	
Truckage,	1.65	
		1,228.35

ENGINE COMPANY NO. FIVE.

Company's bill, services,	$853.25	
" " fines of members,	11.50	
" " fuel and lights,	12.50	
Repairs,	48.75	
Fuel,	38.40	
Gas,	1.70	
Shovel,	1.25	
Truckage,	.50	
		967.85
Amount carried forward,		$18,988.47

Amount brought forward,		$18,988.47

ENGINE COMPANY NO. SIX.

Repairs,	$1.25	
Truckage,	.15	
		1.40

HOOK AND LADDER COMPANY NO. ONE.

Company's bill, services,	$608.29	
" " fines of members,	23.50	
" " fuel and lights,	7.50	
Repairs,	88.56	
Gas,	1.27	
Lanterns,	10.50	
Truckage,	.15	
		739.77

HUNNEMAN ENGINE COMPANY NO. SEVEN.

Company's bill, services,	$28.00	
Water-rates,	8.00	
		36.00

ENGINE COMPANY NO. NINE.

Appropriation for incidental expenses,	$75.00	
		75.00

REFRESHMENTS.

Somerville Engine Company,	$30.00	
Mystic Hose Company,	10.00	
Medford Hook and Ladder Co.	10.00	
Charlestown Steamer,	9.05	
Washington Engine Co. No. Nine,	3.48	
		62.53
Amount carried forward,		$19,903.17

Amount brought forward,		$19,903.17

MISCELLANEOUS.

Alarm bell,	$1,400.00	
Storing engines,	25.00	
Harness,	18.00	
Repairs,	97.86	
Setting and repairing hydrants,	15.37	
Clearing snow from hydrants and reservoirs,	23.87	
Veterinary attendance,	17.00	
Mats, cotton waste, oil, &c.,	57.85	
Police services,	14.00	
Expenses of Committee to Providence,	16.20	
Telegram,	.50	
Printing and advertising,	8.00	
Maps and stationery,	20.43	
Ringing bells,	27.50	
Post-office box,	2.00	
Truckage,	11.05	
		1,754.63
		$21,657.80

Appropriation,	$22,500.00	
Amount of Expenses,	$21,657.80	
Transferred,	842.20	
		$22,500.00

For Streets and Public Squares.

Amount paid for labor,	$14,369.32
Gravel, stone, and carting,	5,880.61
Lumber and lime,	999.80
Surveys and plans,	84.00
Horses,	400.00
Boarding horse and medicine,	17.62
Horse-shoeing and iron work,	891.89
Amount carried forward,	$22,643.24

Amount brought forward,		$22,643.24
Grain and meal,		2,250.36
Hay and straw,		1,222.96
Wagon,		100.00
Harnesses and repairs,		258.75
Repairing carts, &c.,		123.82
Repairs on stone-breaker,		582.97
Flag and repairs,		40.50
Repairs,		416.54
Fuel,		334.39
Gas,		28.17
Gas-fixtures,		54.24
Rent of land for storage of stone and gravel,		162.62
Shovels, pick-handles, oil, &c.,		391.94
Trees and trimming,		90.00
Carpenter's work,		365.25
Repairs of water fixtures,		2.24
Water-rates,		40.00
Lowering and hoisting top-masts,		15.00
Washing bedclothes,		8.50
		$29,131.49

Appropriation,		$30,000.00
Amount of Expenses,	$29,131.49	
Transferred,	868.51	
		$30,000.00

For Reservoirs and Drains.

Amount paid for labor,		$1,490.55
Bricks,		908.75
Lumber and cement,		1,058.32
Stone, &c.,		47.72
Surveys and plans,		45.50
Carpenter's work,		22.50
Cesspool covers,		4.50
Rakes, lead, lanterns, &c.,		105.23
		$3,683.07

Appropriation,		$5,000.00
Amount of Expenses,	$3,683.07	
Transferred,	1,316.93	
		$5,000.00

For Care and Repairs of Bridges.

Care of draws,	$595.25	
Repairs,	152.87	
Repairs on house,	206.72	
Lumber,	299.88	
Spikes, bolts, &c.,	146.32	
Damage to carriage,	25.00	
		$1,426.04

Appropriation,		$1,500.00
Amount of Expenses,	$1,426.04	
Transferred,	73.96	
		$1,500.00

For Care and Repairs of West Boston and Canal Bridges.

Care of draws,	$1,050.17	
Opening draw,	15.00	
Moving toll-house,	31.00	
House rent,	16.50	
Fluid, naphtha, matches, &c.,	321.09	
Lighting lamps,	208.00	
Repairs,	1,949.49	
Repairs on house,	10.71	
Lumber and oak piles,	3,785.76	
Nails, paint, oil, &c.,	159.04	
Iron-work,	8.97	
Use of tow-boat,	8.00	
Water-rates,	12.00	
Truckage,	6.00	
		$7,581.73

Appropriation,	$6,000.00	
Additional do.,	1,581.73	
		$7,581.73
Amount of Expenses,		7,581.73

For Lighting Streets.

Superintendent of lamps, salary,		$200.00	
Gas for street lamps,		6,071.06	
Fluid, naphtha, matches, &c.,		358.47	
Care of and lighting lamps,		2,032.96	
Fitting lamp-posts,		55.50	
Lanterns and repairs,		339.25	
Printing,		5.00	
			$9,062.24
Appropriation,	$9,000.00		
Additional do.,	65.00		
		$9,065.00	
Amount of Expenses,		9,062.24	
Balance unexpended,		$2.76	

For Watering Streets.

Paid for watering,		$1,992.12	
Printing,		7.88	
			$2,000.00
Appropriation,	$2,000.00		
Amount of Expenses,	2,000.00		

For Paving.

Labor and materials for paving,		$4,506.89	
			$4,506.89
Appropriation,	$4,000.00		
Additional do.,	506.89		
		$4,506.89	
Amount of Expenses,		4,506.89	

For Hydrants.

Hydrant frames, covers, &c.,		$65.59	
Bricks,		196.90	
Hay,		24.55	
Packing hydrants,		10.50	
Lumber,		3.40	
			$300.94

Appropriation, ...	$400.00	
Amount of Expenses,	300.94	
Transferred, . . .	99.06	
	$400.00	

For Salaries of City Officers.

Mayor, ...	$1,500.00	
Treasurer and Collector, ...	1,500.00	
City Clerk, ...	1,500.00	
Auditor of Accounts, ...	500.00	
Clerk of Common Council, . . .	150.00	
Messenger, ...	600.00	
Board of Assessors, ...	1,200.00	
Superintendent of Streets and Drains, .	1,200.00	
		$8,150.00

Appropriation, ...	$8,300.00	
Amount of Expenses,	$8,150.00	
Transferred, . .	150.00	
	8,300.00	

For Burial Grounds.

Land to enlarge cemetery, . . .	$10,922.33	
Superintendent's salary, . . .	716.67	
Sundry workmen, ...	4,561.50	
Use of horse, ...	216.64	
Paid for removals, ...	5.39	
Surrender of tomb, ...	30.00	
Bier and tablets, ...	107.35	
Tools, grass-seed, &c., ...	98.45	
Repairs, and sharpening picks, . . .	17.71	
Surveys and plans, ...	39.25	
Printing, ...	1.50	
Post-office box, ...	.50	
		$16,717.29

OLD GROUNDS.

Care of ground, Ward 2, . . .	$25.00	
		$25.00
		$16,742.29

Appropriation, . .	$3,000.00	
Additional do., . .	13,742.33	
		$16,742.33
Amount of Expenses, . . .		16,742.29
Balance unexpended,		.04

For Payment of City Debt.

State Bank, ...		$53,300.00
Harvard Bank, ...		20,000.00
New-England Mutual Life Ins. Co.,		30,000.00
Edw. Richardson, Tr. Solds.' R. Fund,		1,500.00
Edw. Richardson, ...		11,000.00
D. McFarland, ...		3,000,00
George H. Folger, ...		1,700.00
Heirs of William Gay, ...		7,000.00
School Committee, ...		156.00
		$127,656.00
Appropriation, .	$121,700.00	
Additional do., .	6,000.00	
	$127,700.00	
Amount of Expenses, . .	127,656.00	
Balance unexpended, . .	$44.00	

For Interest and Bank Discounts.

Lowell Institution for Savings, . .	$2,330.00
Cambridge City Bonds, ...	12,800.00
Cambridge City Bonds (gold), . .	7,500.00
Cambridge City Bonds (Water Works),	5,592.00
Cambridge Water-Works' Bonds, . .	1,650.00
Edw. Richardson, Tr. Cambridge W. W.,	145.79
Bank of the Republic, ...	1,200.00
State Bank, ...	1,092.65
Union Bank, ...	45.00
Harvard Bank, ...	260.00
Cambridgeport Savings Bank, . .	575.00
Commissioners of Bridge Fund, . .	5,250.00
Amount carried forward,	$38,440.44

Amount brought forward,	$38,440.44	
Trustees of Sanders Temperance Fund,	600.00	
Trustees of Daniel White Charity,	300.00	
New-England Mutual Life Ins. Co.,	3,270.00	
Heirs of William Gay,	420.00	
Robert Douglass,	461.52	
D. McFarland,	275.00	
Josiah Coolidge,	235.64	
Edw. Richardson,	164.09	
George H. Folger,	102.00	
Premium for gold,	5,934.37	
School Committee,	24.18	
Sundry banks, &c., on temporary loans,	3,564.51	
		$53,791.75
Appropriation,	$50,000.00	
Additional do.,	5,141.00	
	$55,141.00	
Amount of Expenses,	53,791.75	
Balance unexpended,	$1,349.25	

For Interest on Water Loan.

Interest warrants on bonds,	$3,000.00	
		$3,000.00
Appropriation,	$3,000.00	
Amount of Expenses,	3,000.00	

For Dana Library.

Librarian, salary,	$187.50	
Preparing and printing catalogue,	549.31	
Books and stationery,	338.49	
Binding books,	25.22	
Newspapers, stamps, &c.,	3.75	
Printing,	7.50	
		$1,111.77
Appropriation,	$1,100.00	
Additional do.,	11.77	
	$1,111.77	
Amount of Expenses,	1,111.77	

For Dowse Institute.

Amount paid Trustees, ...		$600.00	
			$600.00
Appropriation, . .	$600.00		
Amount of Expenses, . .	600.00		

For Volunteers and their Families.

Expenses of recruiting, ...		$500.39	
Bounties, ...		22,993.50	
Amount paid in cash to soldiers' families,		51,300.00	
Fuel delivered " " .		621.22	
Goods " " " . .		9.94	
Medicine " " " .		167.37	
Medical services " " . .		52.50	
Funeral expenses, ...		181.60	
Music, ...		52.50	
Reception of 38th Regiment, . . .		2,785.06	
Examining recruits, ...		78.00	
Expenses of recruiting offices, . . .		63.46	
Flags, &c., ...		15.00	
Horse hire, ...		9.50	
Printing and advertising, ...		368.03	
Truckage, ...		25.25	
			$79,223.32
Appropriation, .	$150,000.00		
Reduction of do., .	40,000.00		
		$110,000.00	
Amount of Expenses, .	$79,223.32		
Transferred, . . .	30,722.33		
		109,945.65	
Balance unexpended, . .		$54.35	

For Incidental Expenses.

Legal services and expenses,	$1,877.45
Judgment, "Murdock *v.* City,"	3,159.22
Extra allowance to Treasurer,	375.00
" " " City Clerk,	375.00
" " " Messenger,	225.00
" " " Board of Assessors,	1,800.00
Assistant Assessors' services,	455.00
Abstract of records for Assessors,	70.00
Assistance in Treasurer's office,	357.00
Insurance of public buildings,	831.53
Distributing tax-bills,	98.00
Somerville tax-bill,	248.00
Belmont "	118.75
Abatement of taxes,	74.75
Surveys and plans,	35.00
Taking census,	682.50
" " of births,	45.25
Recording births, deaths, and marriages,	275.70
Recording deeds,	8.50
Reporting deaths,	99.80
Blank books and stationery,	508.19
Revenue stamps and postage,	412.78
Hand stamps,	24.00
Newspapers,	37.75
Post-office boxes,	4.67
Railway tickets,	180.00
Draping City Hall, April 19th,	286.03
Page of Common Council,	20.00
Tablet at Washington Elm,	32.50
Services of Engineer,	500.00
Alarm bell and clock,	300.00
Horse-power and water tank,	1,017.97
Expenses, Feb. 22d,	388.00
Building station-house,	815.96
" pound,	141.81
Amount carried forward,	$15,881.11

Amount brought forward,	$15,881.11	
Lumber,	180.04	
Safe for room of Police Court,	150.00	
Printing and advertising,	2,313.33	
Furniture for City Hall,	338.83	
Fuel,	361.96	
Gas,	462.43	
Ice,	17.60	
Water-rates,	18.00	
Supper for City Government,	372.75	
Music for High School Exhibition,	50.00	
Damages for defect in highway,	150.50	
Widening Garden street,	300.00	
Repairs,	1,167.85	
" hay-scales,	48.31	
Storing hearse,	39.00	
Funeral expenses,	22.50	
Vaccinating,	147.00	
Medical attendance, small-pox and ship-fever patients,	254.00	
Care and repairs of clocks,	102.00	
Armory expenses,	732.70	
Cleaning guns,	14.25	
Express charges,	54.75	
Flags and repairs,	16.75	
Lowering and raising flags and top-masts,	10.00	
Refreshments for ward officers,	80.50	
Rent of ward-rooms,	75.00	
Care of " "	9.00	
Bell ringing,	272.76	
Mats, keys, dusters, &c.,	28.37	
Cleaning City Hall,	17.25	
Milk inspector's salary,	33.33	
Testing platforms and weights,	5.00	
Horse hire,	36.00	
Rent of land for pound,	20.00	
Truckage,	18.70	
		$23,801.57

Appropriation, .	$15,000.00	
Additional do., .	8,804.57	
		$23,804.57
Amount of Expenses, . .		23,801.57
Balance unexpended, . .		$3.00

For Care and Management of the Water Works.

Cost of Water Works, above bonds, . .	$80.00
Superintendent, salary, . . .	625.00
Clerk, " . . .	250.00
Engineer, "	566.68
Foreman, "	450.00
Sundry workmen, ...	2,526.51
Rent of office, ...	50.00
Office furniture, ...	4.65
Books, stationery, and newspapers, . .	32.15
Canvassing city, ...	30.00
Land to enlarge reservoir, . . .	800.00
Copper strainer at reservoir, . . .	78.56
Water-gate at reservoir, ...	424.00
Screen frames at pond, ...	130.25
Bricks " "	129.50
Stone " "	558.75
Mason work " "	77.62
Carpenter's work at pond, . . .	11.78
Cover of well-room, ...	94.00
Scale preventive, ...	30.00
Oil, packing, cement, &c., ...	375.38
Fuel, ...	4,001.47
Painting engine house, ...	57.43
Whitening " "	20.00
Supplies, ...	5,247.95
Repairs, ...	122.83
Hydrants, ...	18.00
Plumbing and materials, ...	39.80
Labor, with teams, ...	84.75
Amount carried forward,	$16,917.06

Amount brought forward	$16,917.06	
Somerville tax-bill,	46.50	
Surveys and plans,	43.00	
Printing,	99.00	
Refunded on pipe account,	101.64	
Water-rates refunded,	40.66	
Distributing water-bills,	42.25	
Truckage,	37.68	
		$17,327.79

Appropriation (by special vote),	$8,000.00	
Additional do.,	11,291.18	
		$19,291.18
Amount of Expenses,		17,327.79
Balance unexpended,		$1,963.39

FOR RESERVED FUND.

Appropriation,	$15,000.00
Transferred,	15,000.00

RECAPITULATION OF EXPENDITURES FOR THE FINANCIAL YEAR ENDING NOVEMBER 30, 1865.

	Original Appropriations.	Added or Subtracted.	Appropriations as altered.	Amount of Expenditures.	Balances unexpended.
Instruction in Public Schools,	$58,000.00	+ $394.83	$58,394.83	$58,394.83	
Hopkins Fund,	800.00	— 666.31	133.69	133.69	
Compensation to School Committee,	1,075.00	+ 25.00	1,100.00	1,100.00	
Care and Repairs of School-houses,	20,000.00	+ 2,225.00	22,225.00	22,213.95	$11.05
Almshouse and Stone Ledge,	20,500.00	+ 1,100.00	21,600.00	21,481.52	118.48
Police and Watch,	24,000.00	— 1,150.00	22,850.00	22,833.14	16.86
Fire Department,	22,500.00	— 842.20	21,657.80	21,657.80	
Streets and Public Squares,	30,000.00	— 868.51	29,131.49	29,131.49	
Reservoirs and Drains,	5,000.00	— 1,316.93	3,683.07	3,683.07	
Care and Repairs of Bridges,	1,500.00	— 73.96	1,426.04	1,426.04	
Care and Repairs of West Boston and Canal Bridges,	6,000.00	+ 1,581.73	7,581.73	7,581.73	
Lighting Streets,	9,000.00	+ 65.00	9,065.00	9,062.24	2.76
Watering Streets,	2,000.00		2,000.00	2,000.00	
Paving,	4,000.00	+ 506.89	4,506.89	4,506.89	
Hydrants,	400.00	— 99.06	300.94	300.94	
Salaries of City Officers,	8,300.00	— 150.00	8,150.00	8,150.00	
Burial Grounds,	3,000.00	+ 13,742.33	16,742.33	16,742 29	.04
Payment of City Debt,	121,700.00	+ 6,000.00	127,700.00	127,656.00	44.00
Interest and Bank Discounts,	50,000.00	+ 5,141.00	55,141.00	53,791.75	1,349.25
Interest on Water Loan,	3,000.00		3,000.00	3,000.00	
Dana Library,	1,100.00	+ 11.77	1,111.77	1,111.77	
Dowse Institute,	600.00		600.00	600.00	
Volunteers and their Families,*	110,000.00	— 30,722.33	79,277.67	79,223.32	54.35
Incidental Expenses,	15,000.00	+ 8,804.57	23,804.57	23,801.57	3.00
Care and Management of the Water Works,†	8,000.00	+ 11,291.18	19,291.18	17,327.79	1,963.39
Reserved Fund,	15,000.00	— 15,000.00			
Amount of Appropriations,			$540,475.00	$536,911.82	$3,563.18
Amount of Expenditures,			536,911.82		
Balances unexpended,			$3,563·18		

* This appropriation, originally $150,000, was reduced by the sum of $40,000,

† This appropriation was made by special vote after the annual appropriations were made.

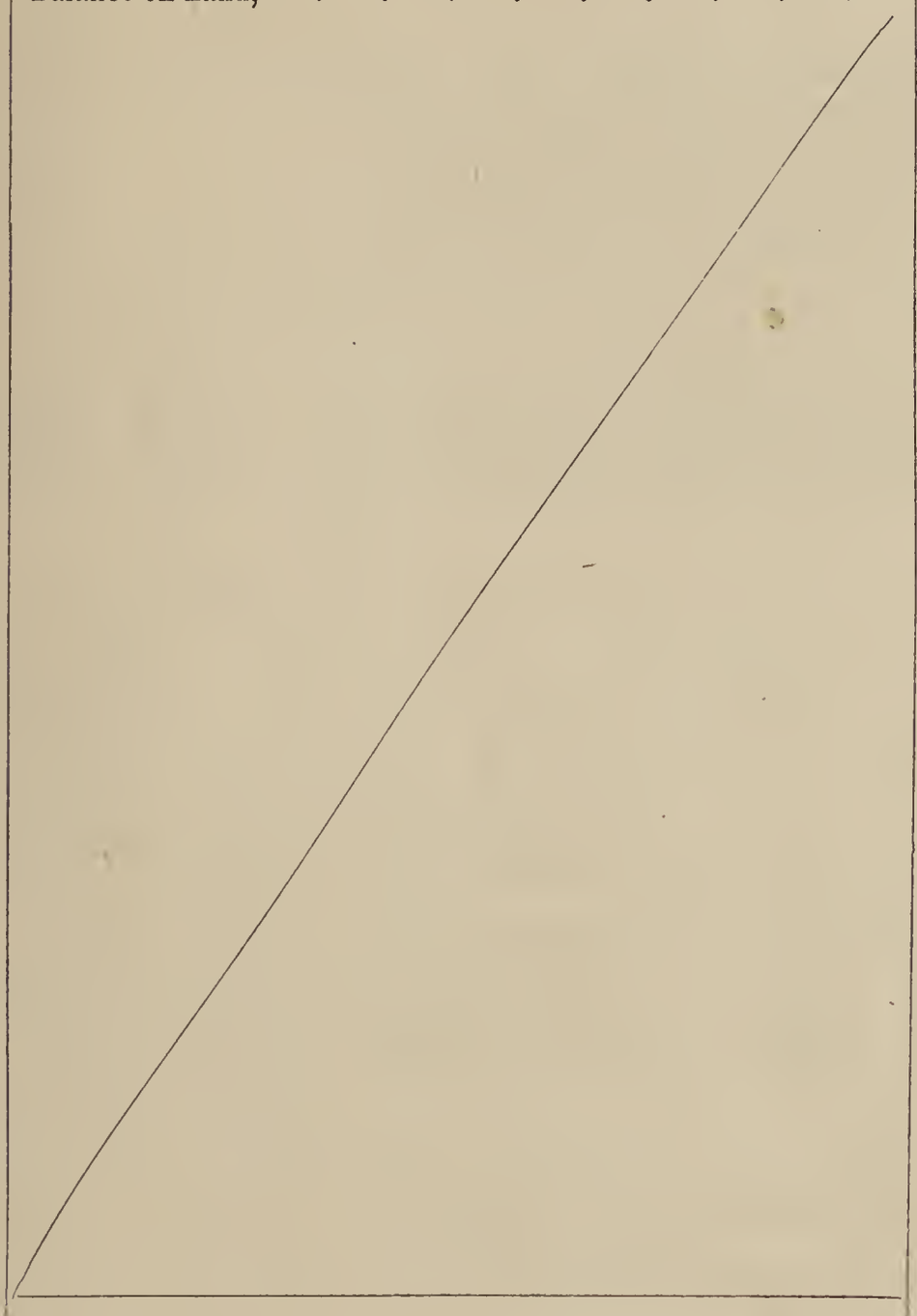
DR. JOS. WHITNEY, TREASURER,

1864.	Balance on hand,		$84,158.71
Dec. 1.	State of Massachusetts, State Aid refunded,		68,000.00
	Corporation Tax,		33,709.70
	School Fund,		1,555.95
	Rent of Armories,		200.00
	Ordnance Department,		11.25
	Expense of taking Census, reimbursed by the Commonwealth,		682.50
	Deposited with State Treasurer for Recruiting purposes, refunded,		2000.00
	John S. Ladd, Police Justice, Fines, &c.,		2,333.60
	Sundry persons, Drain Assessments,		772.44
	" " for constructing private Drains, Sidewalks, and for Edge Stone,		1,459.05
	Sundry second-hand articles, sold,		9.33
	R. Litchfield, Rent of City Hall,		218.00
	J. Hanscom, Warden, Almshouse Account,		9,106.63
	H. H. Eames, Supt., Cemetery Account,		5,261.92
	Cambridge Water Works, Interest,		1,500.00
	N. England Mutual Life Insurance Co., Permanent Loan,		50,000.00
	Bridge Fund, Permanent Loan,		41,000.00
	Sundry Persons and Institutions, Temporary Loan,		180,200.00
	Jos. Whitney, Collector, Taxes, 1865,		348,556.75
	" " " " 1864,		17,564.56
	" " " " 1863,		1,040.01
	" " " " 1862,		22.00
	" " " " 1861,		20.42
	" " Interest on Taxes,		469.58
	Rent of City Farm,		100.00
	" " First Police Station,		10.00
	" " Police Court Room,		200.00
	Dana Library, Fines and Subscriptions,		332.40
	Trustees of Hopkins Charity Fund,		860.52
	John Savage, Jr., Tuition,		50.00
	Charles Dimick, "		30.00
	J. A. Holmes, Weighing Fees,		24.46
	S. S. Green, " "		68.54
	F. H. White, " "		51.24
	Joseph Burridge, Jr., " "		109.98
	I. P. Estes, " "		142.99
	Bridge Fund, Care and Repairs of W. Boston and Canal Bridges,		7,581.73
	Town of New Braintree, State Aid paid to the parents of Wm. Butler, refunded,		34.00
	Estate of F. L. Batchelder, amount of sundry subscriptions towards the expense of erecting a Tablet at the Washington Elm,		40.91
	J. Hittinger, Rent of part of Farm,		30.00
	Cambridge Water Works, Water Rates, Labor, and Material,		37,605.48
	Thomas Lyons, Deed of part of Gravel Farm,		750.00
	J. A. Jacobs, City Clerk, for Licenses, Circus,	10.00	
	" " " " " " Bowling,	10.00	
	" " " " " " Auctioneers,	6.00	
	" " " " " " Sales,	60.00	86.00
	Cambridge Water Works Co., Amount of claims of sundry persons against said Company for the expense of laying Main Pipe,		291.55
	Accrued Interest on Bonds,		1,893.40
			$900,145.60

CAMBRIDGE, December 1, 1865.

IN ACCOUNT WITH THE CITY OF CAMBRIDGE. Cr.

1864.	State of Massachusetts, State Tax, ...	$53,424.00
Dec. 1.	County of Middlesex, County Tax, ...	16,463.89
	Cambridge Water Loan, Interest, ...	3,000.00
	Trustees Dowse Fund, "	600.00
	Sundry Persons and Institutions, Interest on Permanent Loan, .	48,806.60
	" " " Temporary Loan,	3,800.15
	" " Permanent Loan, . . .	127,656.00
	" " Temporary Loan, . .	180,200.00
	" per Mayor's Drafts and Orders, . . .	350,856.00
	Interest due and not called for, . . . $1,292.00	
	Bills approved " " 1,630.23	
	Balance on hand, ...	115,338.96
		$900,145.60



$900,145.60

JOS. WHITNEY, *City Treasurer.*

ACCOUNT OF CITY DEBT, DECEMBER 1, 1865.

Date.	Rate.	To whom payable.	Amount.	When payable.	Interest paid to
November 6, 1850.	5½	Lowell Institution for Savings,	$3,000.00	November 6, 1870.	November 6, 1865.
January 23, 1851.	5½	" " " "	8,000.00	January 23, 1871.	July 23, 1865.
April 6, 1857.	5¾	" " " "	30,000.00	April 6, 1871.	October 6, 1865.
December 15, 1860.	6	Bank of the Republic,	20,000 00	December 15, 1865.	June 15, 1865.
February 12, 1851.	5½	Daniel M'Farland,	2,000.00	February 12, 1866.	August 12, 1865.
July 1, 1858.	5	Cambridge City Bonds,	7,000.00	July 1, 1878.	July 1, 1865.
July 1, 1859.	5	" " "	15,000.00	July 1, 1879.	July 1, 1865.
July 1, 1862.	5	" " "	20,000.00	July 1, 1882.	July 1, 1865.
August 1, 1862.	5	" " "	30,000.00	August 1, 1882.	August 1, 1865.
September 10, 1862.	5	" " "	40,000.00	September 10, 1882.	September 10, 1865.
September 10, 1862.	5	" " "	30,000.00	September 10, 1877.	September 10, 1865.
November 20, 1862.	5	" " "	14,000.00	November 20, 1882.	November 20, 1865.
March 5, 1863.	5	" " " (gold),	150,000.00	January 1, 1893.	July 1, 1865.
April 1, 1864.	5	" " "	100,000.00	April 1, 1889.	October 1, 1865.
July 1, 1856.	6	" " "	50,000 00	July 1, 1881.	July 1, 1865.
May 1, 1865.	6	" " " Water Loan,	186,400.00	May 1, 1875.	November 1, 1865.
August 1, 1865.	6	" " "	55,000.00	August 1, 1883.	
June 17, 1856.	5¾	Cambridgeport Savings Bank,	5,000.00	June 17, 1866.	July 10, 1865.
June 14, 1856.	5¾	" " "	5,000.00	July 14, 1866.	July 10, 1865.
June 1, 1857.	6	Robert Douglass,	7,692.00	June 1, 1867.	June 1, 1865.
October 1, 1863.	6	Trustees of Daniel White Charity,	5,000.00	On demand.	October 1, 1865.
March 20, 1865.	6	New England Mutual Life Insurance Co.,	50,000.00	October 20, 1866.	September 20, 1865.
		Total of City Debt proper,	$ 833,092.00		
		In addition to this, the City has accepted as a perpetual loan, not liable to reimbursement, but subject to payment of interest,			June 1, 1865.
June 1, 1858.	6	The Dowse Institute Fund,	10,000.00		October 8, 1865.
October 8, 1864.	6	" Sanders Temperance Fund,	10,000.00		
			$20,000.00		
		And has given the Commissioners of the Bridge Fund the following notes, which belong to the City, and are in no sense a debt.			
June 20, 1862.	6	Commissioners of the Bridge Fund,	20,000.00	August 1, 1872.	August 1, 1865.
November 30, 1863.	6	" " " "	27,000.00	November 30, 1873.	November 30, 1865.
November 30, 1864.	6	" " " "	24,000.00	November 30, 1874.	November 30, 1865.
March 8, 1865.	6	" " " "	33,000.00	March 8, 1875.	September 8, 1865.
November 30, 1865.	6	" " " "	8,000.00	November 30, 1875.	
			$ 112,000.00		

REPORT

OF

THE COMMISSIONERS OF THE BRIDGE FUND.

The Commissioners of the Bridge Fund herewith submit their Annual Report for the current financial year, showing the amount of the Fund on the first day of December, 1864; the receipts upon the same, whether from interest or otherwise, together with the expenses that have been paid, and the present condition and amount of the Fund.

Amount of Fund, December 1, 1864,	$122,554.55	
Interest received,	7,846.03	
Rent of toll houses,	195.50	
		$130,596.08
Expense of repairing Bridges,		7,581.73
Present amount of Fund,		$123,014.35

Which is invested as follows, to wit:

City of Cambridge note, dated Aug. 20th, 1862, payable in ten years,	$20,000.00
City of Cambridge note, dated Nov. 30th, 1863, payable in ten years,	27,000.00
City of Cambridge note, dated Nov. 30th, 1864, payable in ten years,	24,000.00
City of Cambridge note, dated March 8th, 1865, payable in ten years,	33,000.00
City of Cambridge note, dated Nov. 30th, 1865. payable in ten years,	8,000.00
Amount carried forward,	$112,000.00

Amount brought forward,	$112,000.00
The following notes secured by mortgage, the first of which is payable on demand, and the second in five years from its date.	
Isaac Livermore's note dated Sept. 30th, 1856, . .	6,000.00
Amory Houghton's " " Jan. 1st, 1859, . . .	5,000.00
Cash on hand, ...	14.35
	$123,014.35

During the year the following bonds and mortgages have been paid with the interest due thereon, namely:

66 Cambridge Railroad bonds, $500 each, . .	$33,000.00
Amory Houghton's note, ...	7,400.00
	$40,400.00

These sums, with balance on hand December 1st 1864, and part of excess of interest and rents received over expenditures on bridges, have been invested in a note of the City of Cambridge, dated March 8th, 1865, payable in ten years, for 33,000.00

And a note of the City of Cambridge, dated November 30th, 1865, payable in ten years, . . . 8,000.00

And there is on hand a cash balance, subject to investment or use in expenditures on the Bridges, when needed, of $14.35

J. WARREN MERRILL,
JOS. WHITNEY,
SAMUEL P. HEYWOOD,
JOHN LIVERMORE,
ROBERT O. FULLER,
} *Commissioners.*

CAMBRIDGE, December 1, 1865.

REPORT

OF

THE COMMITTEE ON RECRUITING.

The Committee on Recruiting beg leave to report that, since the first day of January, 1865, they have recruited thirty-four men for one year's service, and forty-four men for three years. During the same time, there have been obtained by the agent of the Commonwealth, as representative recruits, forty-six three years' men; making, in all, one hundred and twenty-four men, or equal to three hundred and four men for one year. To secure these men, there has been paid as bounty, $13,475, or an average of about $108 per man, or $44.32 for one year's service.

The other expenses, such as salary of agent, advertising, &c., amount to $671.67; making a total expenditure, by this Committee, of $14,146.67.

As the occupation of this Committee is gone, they respectfully submit the above, and ask to be discharged.

For the Committee,

J. WARREN MERRILL, *Chairman.*

CAMBRIDGE, October 11, 1865.

REPORT

OF THE

COMMITTEE ON SOLDIERS AND THEIR FAMILIES.

The Joint Committee on Soldiers and their Families respectfully submits to the City Council its report for the year ending November 30, 1865.

The Committee has consisted of thirteen members, — five from the Board of Aldermen, and eight from the Common Council, — the City Clerk acting as the clerk of the Committee. Regular monthly meetings have been held, and the aid has been paid by the City Treasurer, upon orders drawn by the Committee, on the last day of each month.

The whole number of families who have received aid during the year has been 713. The number now on the list is 61. These are members of the 24th and 30th regiments, which are still in the service, — soldiers in the ordnance corps or the regular army, seamen in the navy, disabled soldiers, or cases where the families of those who have died in the service are entitled to State aid until a pension shall be obtained.

The appropriation for Volunteers and their Families, at the commencement of the year, was . .	$150,000.00
This was subsequently reduced by	40,000.00
Net appropriation, . .	$110,000.00

The following sums have been expended by this Committee: —

For aid paid to soldiers' families,	$51,300.00	
" fuel delivered " "	621.22	
" goods " " "	9.94	
" medicine " "	167.37	
" medical services "	52.50	
" funeral expenses "	181.60	
" music,	52.50	
		$52,385.13

The amount paid for aid in December, 1864, was included in the return made in January, 1865; of the amount since paid, $39,000 will probably be reimbursed by the State. It is believed that an appropriation of $5,000 will be sufficient for the ensuing year.

The labors of the Committee have been unusually arduous and perplexing, on account of the irregularity with which regiments have been mustered out of the service. Payments have been made, in many cases, to the time of the soldiers' actual discharge, and official information has afterwards been received that the mustering out took place, perhaps a month before, at a place a thousand miles distant.

The Committee has endeavored to discharge the duties devolved upon it with fidelity; and though there have been, as in all charities, some cases of fraud upon the city, they have not occurred through any want of effort on the part of the Committee to prevent them. Some of its members have served upon it through the war, and no member of the City Council who has been appointed upon it has ever declined to accept its duties and responsibilities.

All which is respectfully submitted by

FRANCIS L. CHAPMAN,
SAMUEL W. DUDLEY,
J. L. SANDS,
GEO. P. CARTER,
SUMNER ALBEE,
JOHN M. TYLER,
JOS. WHITTEMORE,
J. S. SAWYER,
ARTHUR MERRILL,

Committee on Soldiers and their Families.

CAMBRIDGE, December 27, 1865.

REPORT

OF THE

COMMISSIONERS OF THE CAMBRIDGE CEMETERY.

The Commissioners of the Cambridge Cemetery respectfully submit to the City Council their Annual Report for the year ending Nov. 30, 1865.

The operations of the Cemetery have, during the past year, been conducted on the principles previously adopted. That the measure of the Commissioners, adopted last year, authorizing the Superintendent to lay out and sell single lots, has met a want of the community is proved by the fact that a large number of these lots has been sold.

Steps have been taken to improve the appearance of the Cemetery by the planting of trees and shrubs in suitable places, which, if judiciously continued in years to come, will do much in setting off the natural advantages of the place.

The two most important events in the history of the Cemetery, this year, are the carrying into execution of the bill passed by the last legislature, authorizing the removal of the remains deposited in the Burial Ground of Ward Two and prescribing the mode of doing it; and the purchase of an adjoining piece of land. More than seven hundred removals have already been made, in every instance where it was possible, with due regard to the feelings and wishes of the friends. Thus a number of single lots have been given to some persons making removals, to enable them to keep the remains of their friends together. It is hoped that the rest of this work will soon be accomplished. The number of interments and the sale of lots have, for some years, so rapidly increased that the conviction forced itself upon the minds of the Commissioners that the Cemetery with its original limits would soon be insufficient for the wants of the City. They recommended, therefore, unanimously to the City Council the

purchase of an adjoining piece of land containing about twelve acres. It is to be hoped that the laying out of this newly acquired land may be done with judgment and taste. The natural surface of the land affords an opportunity for the exercise of both.

Number of lots graded and sold,	66
" " " " " not sold,	3
" " " exchanged for tombs,	3
" " interments,	311
" " removals from Ward Two,	770

INCOME.

Amount received for lots,	$4,108.11
" " " burial fees,	809.24
" " " labor,	344.57
	$5,261.92

EXPENSES.

Superintendent's salary,	$716.67	
Use of horse and cart,	216.64	
Labor,	4,561.50	
Shovels, picks, etc.,	17.71	
		$5,512.52
Income,		5,261.92
Balance against the Cemetery,		$250.60

It will be seen that both the income and expenses have been greater than in the preceding year; the former by $1,067.99, the latter by $1,802.39. Taking into consideration the great expense incurred by the removal of the remains from the Burial Ground of Ward Two, this deficit of $250.60 is not surprising. It is hoped that the balance will again be in favor of the Cemetery when the work of removal is once accomplished.

J. WARREN MERRILL,
CHARLES BECK,
J. C. FARNHAM,
ALBERT STEVENS,
SILAS B. BUCK,
DAN'L U. CHAMBERLIN,
} *Commissioners.*

REPORT

OF THE

OVERSEERS OF THE POOR.

The Overseers of the Poor respectfully submit to the City Council their Annual Report.

The number of persons relieved or supported at the Almshouse during the last year was about the same as during the year 1864.

The number of persons assisted out of the house has been much larger than usual, partly in consequence of the stopping of State aid to families of soldiers, and partly in consequence of the very high price of provisions and fuel. As a large number of persons, in virtue of their service in the army or navy, have obtained for themselves and their families legal settlements in the City, a much larger expenditure in this department will be necessary next year.

Mr. J. W. Churchill resigned his place as chaplain, and Mr. Davis, who is connected with Harvard College, has taken his place.

The day school, considering the disadvantages peculiar to it, is a good one, and the singing of the children would do credit to those more favored.

The inmates are under the medical care of Dr. J. R. Morse, and have enjoyed a good degree of health. This is in some measure due to the regularity and wholesome character of their meals, and the parental care taken of them by the Superintendent and Matron. At Christmas, the inmates enjoyed the pleasure of a Christmas Festival. Through the kind exertions of Mrs. Chas. Theo. Russell, and other friends, a present for each was provided, and they were thus assured that there were those outside of the house who thought of and cared for them.

The farm and ledge have been worked as usual.

The business of gathering house-offal, and feeding it to hogs, has

been quite limited this year, in consequence of the large number of licenses granted to keep pigs. Unless a change in this practice is to be made, so that we can have all the offal, it is doubtful if the City should keep up so expensive an establishment for this purpose.

The appropriation for the Almshouse was,	$20,500.00	
To which was added, ...	1,100.00	
		$21,600.00
Amount expended, ...		$21,482.52
Balance unexpended, . . .		$118.48

The receipts have been:

For Vegetables sold, ...	$3,071.05	
" Hogs and Pigs sold, . . .	3,301.83	
" Stone "	1,122.97	
" Fish "	123.00	
" Board, ...	938.28	
" Cows and calves, ...	503.00	
" Sundries, ...	46.00	
		$9,106.13
There is also due from sundry persons for stone,	$1,073.62	
There is also due for stone delivered to City,	325,00	
		1,398.62
And there is now due from cities and towns for assistance rendered their poor, . .	$179.21	
Increase of personal property over last year, as appraised by a sub-committee of this Board, ...	904.00	
		1,183.21
		$11,687.96
Amount of expenditures, . . .	$21,482.52	
" " receipts, ...	11,687.96	
Actual expense over income, . . .	$9,794.56	

J. WARREN MERRILL, *Mayor.*
WM. HUNNEWELL,
JOSEPH H. RICE,
ALONZO STEWART,
M. L. SMITH,
} *Overseers of the Poor.*

REPORT

OF

JAMES R. MORSE, M. D.,

VISITING PHYSICIAN.

To the Overseers of the Poor of the City of Cambridge:

GENTLEMEN, — In compliance with the usual custom, I herewith report to your Board the amount of sickness and the result of the same, which has come under my care as Almshouse Physician during the past year. Twenty-seven persons have received regular medical attendance, of which number two have died, — one with paralysis, and one with cholera-infantum.

One case of fracture, two of typhoid fever, four of lung fever, and three of scarlet fever have received medical attendance the past year.

Two cases of small-pox and two of varioloid have been placed under my care at the hospital for contagious diseases, all of which recovered.

Five foundlings have been received, and kindly cared for, at the house during the year; three of which are still remaining at the Almshouse. One case of confinement has occurred at the house, and one was brought there, immediately after confinement; both of which did well.

I have visited persons out of the house, whenever desired so to do by any member of your Board, to ascertain the condition of those desiring aid from the city.

It has been my custom to visit the house three times each week,

and have made daily visits when the character of the sickness seemed to require it.

The sick and feeble inmates have uniformly received all due attention and sympathy from the Warden and his family.

For your continued manifestations of kindness to me, gentlemen, please accept my warmest thanks.

Very respectfully,

J. R. MORSE.

CAMBRIDGE, Dec. 30, 1865.

REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

ENGINEER'S OFFICE, FIRE DEPARTMENT,
CAMBRIDGE, December 18, 1865.

To the Honorable Mayor and City Council.

GENTLEMEN: — In compliance with the requirements of the Fire Ordinance, I present the following report of the condition of the Fire Department; also a list of the officers and members connected therewith; a list of the Reservoirs and Hydrants, giving their location, together with a tabular statement of the fires and alarms which have occurred during the year.

The houses used for the purposes of the Department are in good condition. The Roll of the Department at this date comprises 137 men. During the war 201 enlistments were made from the Fire Department, which much reduced its numbers, but the average membership during the past year has been larger than usual, many old members having resumed their connection on returning from the war.

But thirteen vacancies now exist. Fifty alarms have occurred during the year; thirty of which were for fires in the city, thirteen from out of the city, and seven from other causes. Sixteen alarms originated in East Cambridge, eleven in the Port, three in Old Cambridge, and seven in North Cambridge. Assistance has been rendered at fires out of the city five times, received assistance four times. Engines were used at nineteen fires; besides which, Steamer No. One was worked twenty-four consecutive hours in draining the Reservoir of the Water Works, and Steamer Two, six hours, in re-

moving water which had flooded the cellars of the Lum Block on Broadway, from a leak in water-pipe.

The loss by fire is $31,140. Insurance on the same, $18,830.

Having made diligent inquiries as to the causes of alarms which have occurred, I am satisfied that one-third of them were unnecessary, and would have been prevented, had a Fire Alarm Telegraph been in operation in our City. It would also have saved much valuable time in communicating alarms in the first stages of fires, which any one, however ignorant of fire duty, must acknowledge to be of vital importance. I again recommend its adoption.

Next in importance is a sufficient supply of water and suitable Reservoirs, the lack of which has been the source of great anxiety during the unprecedented drought of the past season. The Water Works, under its present excellent management, will be much improved the coming season, and the water pressure from our Hydrants much increased.

But I trust our Reservoirs may not be forgotten, as they are indispensable in many localities, and it is not impossible that at some future period they may for a time be our only resort in case of fire. We have in East Cambridge five Reservoirs, properly so called, built water-tight, that are filled either by rain water from the roofs of neighboring buildings, or from supply-pipes of the Water Works. These contain from ten to fifteen feet of water, and are ready for use at all seasons. All others in the city are merely wells, supplied by springs, with stone or plank sides like common wells, and are affected by drought to the same extent. By a recent measurement some of these were found to contain but six inches of available water for a Steamer, and the average amount did not exceed two and a half feet. Many of them are furnished with supply-pipes; but the water thus obtained is insufficient to supply even a Hand-Engine, to say nothing of Steamers.

The advantage in the use of the Hydrant over that of the supply-pipe is derived by attaching the suction-hose of an Engine to the Hydrant, and drawing the water through; whereas the water from a supply-pipe has only the pressure of the water from the works. From a Hydrant, the water pressure of which indicates twelve pounds to the square inch, by attaching the suction-hose of a Steamer, from fifty to sixty pounds may be obtained. Four Reservoirs were exhausted at the fire of the church on Austin street; and a like result has followed in many instances. I would, therefore,

again Recommend that all reservoirs in important localities be rebuilt water-tight, and furnished with larger supply-pipes. Notwithstanding the many long and useless runs, the firemen have been prompt and efficient on all occasions; and the duties of the men permanently employed have been faithfully performed.

Respectfully submitted,

GEORGE B. EATON,

Chief Engineer of Fire Department.

ENGINEERS.

Chief Engineer.

GEORGE B. EATON, Columbia, cor. Washington street.

Assistant Engineers.

SAMUEL M. FRYE,	Main, near Harrison (Sec. of Board).
THEODORE COLLAMORE,	Pleasant, near River street.
THOMAS J. CASEY,	Cambridge, near Sixth street.

Cambridge Steam Fire Engine Company, No. 1.

House on Church Street, Ward 1.

GEORGE O. ROLLINS,	*Foreman.*
AI ROLLINS,	*Assist. Foreman.*
EDWARD E. PRIEST,	*Engineer.*
WILLIAM WOODLAND,	*Fireman.*
HIRAM W. HOOKER,	*Driver.*
ANDREW J. BATE,	*Driver of Hose Carriage.*

Hosemen.

Hugh McNamee,	Warren Ivers,
Elbridge E. Knight,	John Kinnear,
C. N. Colburn,	John P. Farmer,
John H. Sanderson,	George J. Blaisdell.

Fourteen Members.

Condition of House and Apparatus.

House, Engine with all the Appurtenances, 24 feet of Suction Hose, 3 Horses, Horse Hose Carriage, 1050 feet double riveted Leather Hose, 2½ inch, 150 feet single riveted, 200 feet 6 ply Rubber, 2 Pipes, 4 Buckets, 1 Axe, 2 Blunderbusses in good condition.

Engine built by Amoskeag Manufacturing Company, Manchester, N. H., and put in service September 18, 1864.

All of our steamers are of one pattern, and of the second class, have one steam cylinder $8\frac{1}{2}$ inches in diameter, one double acting vertical plunger pump of $4\frac{3}{4}$ inches diameter with 12 inch stroke.

They will discharge 400 gallons of water per minute if required, will throw two $\frac{7}{8}$ inch streams 210 feet each, or one $1\frac{1}{8}$ inch stream 250 feet. Two copper tanks are attached containing fresh-water, with which to furnish the boiler when using salt-water upon a fire. With fuel and water as run to fires, weight about 6,000 lbs. The Horse Hose Carriages, which accompany the Engines, were built by Messrs. Hunneman & Co. of Roxbury. They are two-wheeled, and capable of carrying 900 feet of Hose; weight, as run to fires, 1,600 pounds.

An Engineer, Driver of Steamer, and Driver of Hose Carriage are permanently employed. These, together with a Fireman and ten Hosemen, constitute the entire company of a Steamer.

Union Steam Fire Engine Company, No. 2.

House on Main, near Windsor Street, Ward 4.

William Cade,	*Foreman.*
Thomas Lucy,	*Assist. Foreman.*
Walter C. Hinckley,	*Engineer.*
Geo. H. Coolidge,	*Fireman.*
John Walker,	*Driver.*
Simon Hitchcock,	*Driver of Hose Carriage.*

Hosemen.

Joseph Cartwright,	Augustus Tallack,
Daniel McCarty,	Jesse Haley,
Nathan Hutchinson,	Thomas Wiseman,
Orlando Hitchcock,	Eldorado Osborn.

Fourteen Members.

Condition of House and Apparatus.

House, Engine, with all the Appurtenances, 24 feet Suction Hose, 3 Horses, Horse Hose Carriage, 1,000 feet double riveted Leather

Hose, 2½ inch, 150 feet single rivet, 200 feet 6 ply Rubber, 2 Pipes, 3 Buckets, 1 Axe, 2 Blunderbusses, in good condition; 50 feet Rubber Hose and 1 wagon ordinary.

Engine built by Amoskeag Manufacturing Company, Manchester, N. H.; put in service August 1, 1863.

Niagara Steam Fire Engine Company, No. 3.

House on Cambridge, near Third Street, Ward 3.

James I. Murphy,	*Foreman.*
John Burns,	*Assist. Foreman.*
Hiram Blood,	*Engineer.*
Walter Goodwin,	*Fireman.*
James S. Casey,	*Driver.*
Lorenzo Dale,	*Driver of Hose Carriage.*

Hosemen.

Darius Emmons,	Michael Collins,
John C. O'Brine,	C. W. Donovan,
Dennis Corcoran,	Daniel Driscoll,
Reuben Atkins,	John F. Brundage.

Fourteen Members.

Condition of House and Apparatus.

House, Engine, with all the Appurtenances, 24 feet Suction Hose, 2 Horses, Horse Hose Carriage, 800 feet of double riveted Leather Hose, 100 feet of 6 ply Rubber, 2 Pipes, 3 Buckets, 1 Axe, 2 Blunderbusses, in good condition. 1 Horse lame and out of service; 200 feet double riveted, 100 feet single riveted and 300 feet 6 ply Rubber Hose ordinary.

Engine built by Amoskeag Manufacturing Company, Manchester, N. H.; put in service September 18, 1862.

Hydrant Engine Company, No 4.

House at junction of Western Avenue and River Street, Ward 4.

Sanford A. Parker,	*Foreman.*
Albert Norris,	1*st Assist. Foreman.*
William Ewell,	2*d* " "
William H. Arkinson,	*Clerk.*
John Hicks,	*Steward.*

John Jenness,
William Norris,
Jacob Hart,
Lewis P. Jenness,
William Dolan,
James Dickson,
Daniel R. Melcher,
William Freeman,
James Henry,
John Quinlan,
G. K. Livermore,
Thomas S. Simmons,
Michael Deacey,
John Manning,
Thomas H. Luther,
Thomas Dolan,
William Jenness,
James A. Reid,
S. L. Wentworth,
Benjamin S. Watts,
Henry McCarty,
William Stratton,
Samuel W. Jenness,
Michael Griffin,
Anthony Griffin,
Lewis C. Clark,
Lawrence Dempsey,
John Deacey,
John W. Walker.

Thirty-Four members.

Condition of House and Apparatus.

House, Engine, 22 feet Suction Hose, 2 Buckets, 1 Pipe, 1 Blunderbuss, 1 Axe, Hose Carriage, 150 feet of 2½ inch Leather Hose, 850 feet 2 inch, in good condition.

Engine built by Hunneman & Co., and formerly used by Cambridge Engine Company, No. 1. It is of their most improved pattern, stern suction, outlets for two streams, 5½ inch cylinders, and rests on springs.

Daniel Webster Engine Company, No. 5.

House on North Avenue, near Shepard School-House, Ward 5.

DANIEL O'CONNELL,	*Foreman.*
H. K. PARSONS,	1*st Assist. Foreman.*
GEORGE NOWELL,	2*d* " "
FRANCIS H. WHITE,	*Clerk.*
DAVID D. CLAFLIN,	*Steward.*

Warren Cutter,	E. Griffin,
S. M. Parsons,	John F. Rice,
Francis Ivers,	Waterman Coleman,
James Presby,	George W. Hunt,
Charles Curtis,	Stephen R. Cole,
Frederick A. Gerry,	George Newton,
William Bryant,	Henry Muller,
Charles Sanborn,	Frank Cook,
H. P. Henderson,	Christian Muller,
James Simonds,	William Friend,
Stephen Stiles,	James A. Henderson,
Samuel Stiles,	George H. Griffin,
Francis Mason,	Asa S. Thompson,
Samuel J. Wright,	William P. Henderson,
Charles E. Marston,	Edward Boardman.

Thirty-five members.

Condition of House and Apparatus.

House, Engine, 27 feet Suction Hose, 4 Buckets, 1 Pipe, 2 Axes, 1 Blunderbuss, Hose Carriage, 700 feet Leading Hose, good; 1 Hose Carriage, 500 feet Leading Hose, ordinary. Engine built by Howard & Davis.

Hand Engine No. 2 and Hose Carriage have been placed in Pioneer Engine House, and for the present will be kept for relief purposes, together with 350 feet of 2 inch Leather Hose.

Hand Engine No. 3 and Hose Carriage are stored in a building connected with the N. E. Glass Works.

Franklin Hook and Ladder Company, No. 1.

House on Main near Windsor Street, Ward 4.

Daniel E. Frasier,	*Foreman.*
Jackson E. Hall,	1*st Assist. Foreman.*
Edward T. Nichols,	2*d* " "
Thomas M. Davis,	*Clerk*,
James P. Ewell,	*Steward.*

Daniel Cross,	Alonzo Colby,
John Loughrey,	Israel Woodbury,
H. E. Withington,	James Bennett,
James Garry,	Charles Litchfield,
G. A. Smart,	T. S. Witherton,
Timothy Nelson,	J. W. Hiscock,
Elias Jones,	C. E. Warren.

Nineteen members.

Condition of House and Apparatus.

House, Carriage, 12 Ladders of various lengths from 12 to 35 feet, 1 Splice Ladder 52 feet in length, 2 Guy Ropes, 8 Buckets, 3 large Fire Hooks with chain and rope attached, 2 small Hand Hooks with poles, 4 Chain Dogs, 4 Fire Rakes, 7 Pitchforks, 4 Axes, 6 Crotch Poles, 2 Crowbars, 2 Saws, 1 Harness, 1 Wrench to Reservoir supply pipes, in good condition; 1 Horse, unsuitable for the purpose.

One long Ladder is kept in a shed attached to the fence in the yard of the First Methodist Society, Third Street, Ward 3, also a Fire Hook, the rope to which is kept in No. 3 Engine House.

Two Ladders, one of 35 feet, and one of 26, together with a large Fire Hook, are kept in a shed attached to Daniel Webster Engine House in Ward 5. The rope to Hook is kept in said house.

In addition to the articles herein described, the Companies are furnished with the requisite number of Badges, Keys, Fire Hats, Belts and Spanners, Signal Lanterns, Hand Lanterns, Crowbars, Hydrant Wrenches, Goose-necks, Reducing Couplings, and all the necessary apparatus for use in the performance of their respective duties.

Fire Police.

Allen B. Parsons, Ward 1.
George S. Pike, " 2.
" 3.
Moses Ricker, " 4.

Hunneman Engine Company, No. 7.

House on Church Street, Ward 1.

JAMES P. WALLACE, JR., *Foreman.*

The duties of this company are confined more particularly to the Ward, but render assistance in other parts of the City when required. They receive $240 per year, to defray incidental expenses and salary of steward, and $8 per hour for services rendered. The Company comprises forty-one members, and is useful in this locality. The apparatus in their charge, Engine, Hose Carriage, 525 feet 2½ inch Leather Hose, and 200 feet Cotton Hose, was recently given to, and accepted by the City, and is in excellent condition.

COMPENSATION OF THE FIRE DEPARTMENT.

ENGINEERS.

Chief Engineer, $500 per annum; Assistants, each, $100; Secretary of the Board, $25.

STEAM FIRE ENGINE COMPANIES.

Engineer,	$75	per	month.
Driver,	60	"	"
Driver of Hose Carriage,	60	"	"
Foreman,	70	"	annum.
Assistant Foreman,	60	"	"
Members,	50	"	"

HAND ENGINE COMPANIES.

Foreman,	$60	per	annum.
First Assistant Foreman,	50	"	"
Second " "	45	"	"
Clerk,	55	"	"
Steward,	115	"	"
Members,	40	"	"

The compensation of Company No. Five is one-half the above, with the exception of the Steward's, which is $85. The Steward of the Hook and Ladder Company receives $80 per annum; other officers and members the same as Steamer Companies.

RESERVOIRS.

A star [*] indicates those furnished with supply pipe.

LOCATED IN WARD ONE.

Corner Main and Dana streets.
Mt. Auburn street, foot of Linden street.
* " " opposite Orthodox Church.
* Corner Brighton and Spring streets.
Brattle street, south end Appian Way.
Garden street, north " " "
School Court, north end.
* Junction Garden street and Concord Av., opposite Arsenal.
North Avenue, near junction Waterhouse street.
Square, front of house of late Dr. Holmes.
Kirkland, opposite Oxford street.
Sumner street, opposite residence of Mr. Lerned.
Cambridge street, opposite Richardson's Buildings.
Prescott street, near J. D. Green's barn.
Bow street, centre of Square.
College Yard.

LOCATED IN WARD TWO.

* Junction Main street and Broadway.
Pioneer street, front of School-house.
* Corner Harvard and Davis streets.
* Broadway, corner of Windsor street.
Corner Washington and Windsor streets.
* Harvard street, head of Cherry.
Corner Harvard and Norfolk streets.
* Harvard street, opposite Burial Ground.
* Corner Harvard and Prospect streets.
Corner Essex and Austin streets.
Corner Main and Hancock streets.
Broadway, head of Tremont street.
* Prospect street, 175 feet north of Broadway.
* Norfolk street, midway between Broadway and Hampshire street.
* Corner Harvard and Columbia streets.
* Austin street, opp. house of late A. Rice.
* Corner Inman and Harvard streets.
* Corner Clark and Hampshire streets.
* Corner Medford and Cambridge streets.
* Corner Tremont and Gardner streets.
Corner Washington and Cherry streets.

LOCATED IN WARD THREE.

* Front of Hotel, junction Bridge and Gore streets.
* Corner Gore and North Third streets.
* Cambridge street, 70 feet east of North Third street.
Corner South Sixth and Spring streets.
* Corner Otis and Fourth streets.
Corner Cambridge and South Fifth sts.
* Corner Thorndike and Third streets.
New England Glass Co.'s Yard.
Winchester's Factory Yard.

LOCATED IN WARD FOUR.

* Corner Washington and Harrison sts.
East end of School street, near Brooks' Buildings.
Main street, 50 feet west of Car Factory.
Main street, near Hovey's Bacon Works.
Corner School and Cherry streets.
Corner Brookline and Auburn streets.
Corner Pearl and Franklin streets.
* Junction Western Avenue and Pleasant street.
* Corner Magazine and Williams streets.
Main street, near Liberty Pole.
* Corner Main and Brookline streets.
* Corner Austin and Douglass streets.
* Pearl street, near Jones & Co.'s Factory.
* Main street, junction of Western Avenue and River street.
Corner Main and Austin streets.
Green street, opposite house of Daniel Stone.
Main street, East side of D. Osborn's Factory.
Corner Washington and Pine streets.

LOCATED IN WARD FIVE.

In Square opposite Porter's Hotel.

North Avenue, near Engine House No. Five.

HYDRANTS.

LOCATED IN WARD ONE.

On Brattle street, on the line between Messrs. Longfellow and Hastings.
Corner Brattle and Ash streets.
" Brattle and Hilliard streets.
On Brattle street, at the corner Brattle House estate, near big tree.
On Harvard street, opp. Harvard Block.
Junction of Main and Harvard streets.
Corner Main and Trowbridge streets.
" Harvard and Remington streets.
On Cambridge street, front of Scientific School.
Corner Cambridge and Sumner streets.
" N. Avenue and Chauncy street.
Mt. Auburn, opposite McClellan street.
Corner Cambridge and Baldwin streets.
Corner Church and Palmer streets.
" Garden and Mason streets.
Junction Waterhouse street and Concord Avenue.
Corner Mt. Auburn and Brighton streets.
" Mt. Auburn and Howard streets.
" Dunster and South streets.
On Kirkland street, opposite Divinity Hall Avenue.
On Oxford street.
On North Avenue, opp. Linnæan street.
Corner North Avenue and Shepard street.
Between the rails of R. R. track, in front of Lyceum Hall.
Corner of Phillips place and Berkeley st.
Craigie, near corner Sparks street.

LOCATED IN WARD TWO.

Corner Main and Lee streets.
" Main and Hancock streets.
On Moore, head of Hastings street.
Corner Washington and Clark streets.
" Harvard and Clark streets.
On Norfolk street, head of Washington street.
On Essex street, westerly side, midway between Harvard and Austin streets.
On Cambridge street, north side, near junction of Hampshire and Cambridge streets.
On Main, opposite Pleasant street.
Corner Main and Essex streets.
" Windsor and Lincoln streets.
" Windsor and Hampshire streets.
On Cambridge street, cor. Willow place.
On Cambridge street, opposite the head of Maple Avenue.
Corner Broadway and Davis street.
" Harvard and Hancock streets.
" Harvard and Dana streets.
" Columbia and Washington streets.
On Prospect street, opp. B. Tilton's.
Corner Prospect street and Broadway.
" Prospect and Hampshire streets.
" Norfolk and Hampshire streets.
On Tremont street, near Wellington's House.
Main, corner of Dock street.
Corner Market and Union streets.

LOCATED IN WARD THREE.

Corner Cambridge and Sixth streets.
" Cambridge and Third streets.
Junction Cambridge and Bridge streets.
On Bridge street, opposite Wellington's counting-room.
On North street, near Glass Co.'s cutting shop.
On Bridge street, south side, opposite the head of Water street.
Corner Third and Vine streets.
Corner Cambridge st. and Franklin alley.
" Fifth and Gore streets.
" Second and Otis streets.
On Bridge street, opposite the Bay State Glass House.
Corner Otis and Seventh streets.
" Thorndike and Sixth streets.
" Thorndike and Fifth streets.
" Gore and Fourth streets.
" Spring and Fourth streets.

LOCATED IN WARD FOUR.

Corner Main and Columbia streets.
Near Junction of Main and Austin streets.
Corner Main and Windsor streets.
Junction of Front and State streets.
On Washington street, near east end.
On Main street, opp. Brooks' Buildings.
On River, opposite Cottage street.
On River, opposite Harrison Avenue.
Corner Western av. and Jay street.
Corner River and Franklin streets.
" Pearl and Cottage streets.
" Pearl and Auburn streets.
" Brookline and Franklin streets.
On Main street, north side, opposite Kennedy's Bakery.
Foot of School street.
Magazine, near Short street.
Corner Main and Norfolk streets.

LOCATED IN WARD FIVE.

Between the rails of railroad track, opposite office door.

FIRES AND ALARMS FROM DECEMBER 18, 1864, TO DECEMBER 18, 1865.

Date.	Owner or Occupant.	Description.	Situation.	Loss.	Insurance.	Causes.
1865.						
Feb'y 3	Antoine Melner,	Watch crystal factory,	Court street, Ward 3,	Trifling.		Improper chimney.
" 6	Lucy Painter.	Unoccupied dwelling-house,	Cedar " " 5,	$400	$400	Incendiary.
March 2	Thomas S. Hudson,	Plate-glass factory,	Fifth "	500		Furnace too near wood work.
" 5	George Marsh,	Kerosene works,	Hampshire street,	250		By mischievous boys.
" 19	Porter & Meacham,	Barn,	Beech street,	800		Unknown.
	W. M. Allen,	Dwelling-house.	" "	5,000	2,400	Took from fire of barn.
	Allen St., Unit'n Soc'y,	Church and organ,	Allen and Orchard streets,	9,800	6,700	Sparks from fire of barn.
	Chas. M. Dinsmore,	Dwelling-house,	Elm street,	100	100	Sparks from church.
" 20		Ruins on fire,	Beech street,			Rekindling of ruins.
April 2	J. White,	Tenement-house,	Broadway,	600	600	Unknown.
" 7		Alarm,	Charlestown,			Fire in Charlestown.
May 4	Rechal Estate,	Roof of a dwelling-house,	East street,	Trifling.		Sparks from Locomotive.
" 17	Jacob Remick.	Barn,	Groveland street near Spruce,	600	200	Struck by lightning.
June 4	John B. Atwill,	"	Dublin street,	250	100	Unknown.
	John Folley,	Dwelling-house,	Sargent street,	1,500		Took from fire of barn.
" 11	Frederick Gerry,	Shed,	N. Avenue, Ward 5,	Trifling.		Unknown.
" 23	E. L. Sanderson,	Pyroteehnic works,	Charles street,	"		Friction in charging candles.
" 26		Alarm,	Brighton,			Fire in Brighton.
" 27		"	Somerville,			Fire in Somerville.
" 30	James I. Murphy,	Dwelling-house,	Cor. Fourth and Vine streets,	Trifling.		Defect in chimney.
July 5	J. N. Howe,	Glass-house block,	Cor. North and Water streets,	"		Sparks from Locomotive.
" 7		Chimney,	Bridge street,			Chimney on fire.
" 19		Alarm,	East Boston,			Fire in East Boston.
" 19	Boston Lumber Co.,	Roof of a dwelling-house,	East street.			Sparks from locomotive.
" 21		Alarm,	Old Cambridge,			Ringing of chime-bells.
" 26	Mrs. C. Morris,	Dwelling-house,	Main street, Lower Port,	180	180	Sparks from foundry chimney.
" 27		Alarm,	Charlestown,			Fire in Charlestown.
" 30	John F. Mumler,	Dwelling-house,	Charles River street.	Trifling.		Child playing with matches.
" 31		Alarm,	Somerville,			Fire in Somerville.
" 31		"	Brighton,			" " Brighton.
Aug. 11		"	Somerville,			" " Somerville.
" 21	Clark & Packard,	Brush-factory,	Cambridge street, Ward 3,	Trifling.		Lighted match dropped on floor.
" 23	Edwin L. Wait,	Cement "	Main street, " 4,	"		Composition took fire.
" 25	Charles Munroe,	Barn,	Court " " 3,	"		Unknown.
Sept. 1	Patrick Forbes,	Stack of hay,	Brookline street,	"		Boys at play.
" 6	Robert O. Fuller,	Church,	Austin street,	4,000	4,000	Incendiary.
" 7		Chimney on fire,	Broadway,			Chimney on fire.
" 9	J. White,	Tenement-house,	"	200	200	Unknown.
" 21		Alarm,	Somerville,			Fire in Somerville.
Oct. 2	Peter Murphy,	Dwelling-house,	East street,	Trifling.		Defect in stove-pipe.
" 2		Alarm.	Somerville,			Fire in Somerville.

FIRES AND ALARMS, CONTINUED.

Date.	Owner or Occupant.	Description.	Situation.	Loss.	Insurance.	Causes.
1864.						
Oct. 3	K. S. Chaffee,	Car of charcoal,	Bridge Street,	Trifling,		Sparks from locomotive.
" 7		Grass on common,	Old Cambridge,			Mischievous boys at play.
" 9		Oil cask,	Pine street,			Burning out oil cask.
" 11	Woodbury & Co.,	Dry-room to planing-mill,	First street,	$1,500	250	Took from heat of boiler.
	F. Goldowski and others,	Lumber in dry-room,	" "	600		
" 11		Alarm,	" "			Second alarm.
" 12		"	Somerville,			Fire in Somerville.
" 13	E. Camb'ge Oil Com'y,	Shed at kerosene works,	Court street, Ward 3,			Incendiary.
" 14		Alarm,	Charlestown,			Fire in Charlestown.
" 19	Braman, Shaw & Co.,	Shavings in mill,	Bridge street,	Trifling,		Friction of machinery.
" 21	C. C. Nichols,	Dwelling-house,	Franklin and Magazine streets,	2,660	2,600	Stove-pipe in contact with wood w'k.
		Furniture and clothing,	" " "	2,000	1,100	
" 25	City of Cambridge,	Tool-shop,	On City Farm,	200		Unknown.
Nov. 8	Dalphon Osborn,	Shavings in boiler-room,	Foot of State street,	Trifling,		Shavings took fire from furnace.
" 10		Alarm,	Somerville,			Fire in Somerville.
				$31,140.	$18,830.	

RECAPITULATION.

Number of Engineers,		4
" " Members,		130
" " Fire Police,		3
" " Steam Fire Engines,		3
" " Hand " "		5
" " Horses,		10
" " Horse Hose Carriages,		3
" " Hand " "		6
" " Feet of Suction Hose,		199
" " Buckets,		24
" " Pipes,		9
" " Axes,		10
" " Feet of Leading Hose,		7,575
" " Hook and Ladder Carriages,		1
" " Ladders,		16
" " Large Hooks with chain and rope attached,		5
" " Hand Hooks with poles,		4
" " Crotch Poles,		6
" " Fire Rakes,		4
" " Pitch Forks,		7
" " Fire Hats,		69
" " Reservoirs,		66
" " Hydrants,		85
" " Alarms from Fires in City,	30	
" " " " " out of City,	13	
" " " " other causes,	7	
	——	50
Loss on buildings and Stock,		$31,140
Insurance " " "		18,830

REPORT

OF

GEORGE L. CADE,

SUPERINTENDENT OF STREETS AND DRAINS.

CITY OF CAMBRIDGE, December 13, 1865.

To the Honorable City Council:

THE undersigned asks leave to submit for your consideration his Second Annual

REPORT.

STREETS AND PUBLIC SQUARES.

The appropriation for streets and public squares, for the financial year ending November 30, 1865, was	$30,000.00
Expended, ...	29,131.49
Balance unexpended, ...	$868.51
Amount received and paid to Treasurer, . .	259.86

The streets and sidewalks of the city, I believe, are in as good condition, if not better, than they ever were before at the closing up of the fall work. The principal reason of their being so is on account of the increased facilities that this department has had the past year, over all other previous years, of being able to have on hand, at all

times, a good supply of stock for macadamizing, which I believe to be the very best material that can be used for the making of roads. I am sorry to say that there is quite a difference of opinion existing in our city as to the proper mode of constructing or repairing a macadamized road, many of our citizens being in favor of covering the material with gravel, a method which I have always contended to be erroneous, and not practicable, and to confirm this position, I beg leave to quote the opinions of scientific men and writers of approved authority on road building. A writer in the "Quarterly Review" says, "the materials should be homogeneous in size upon a road of well-ordered materials; round gravel and pebbles never make a good road, but broken stone *will combine*, *by its own angles*, *into a smooth solid surface* that cannot be affected by the vicissitudes of the weather."

Gillespie says: "The roundness of pebbles, which form the chief part of gravel, prevents them from perfectly consolidating. Usually, gravel contains too much earthy matter, and should be sifted before being used on roads."

Henry Law says: "There are two methods of solidifying the surface of a road — one by the mechanical form of the materials forming a bond, the other by the use of some binding matter like earth. The preference must be decidedly given to the former. *Angular stones should be thoroughly cleaned.*"

Again Gillespie says: "The surface of a road being hard and smooth, well made of broken stone, a horse can draw *three times* as much as he can upon a gravel road. No large stones or coarse gravel should be used to make a macadamized road."

By experiments made by General Morin, to show the resistance to draft on roads of different surfaces, it is shown that upon a causeway of earth the tractive force required was one twenty-sixth of the load, and upon a broken stone road but one forty-fifth.

Bloodgood says: "To make a good road, and have it impervious to water, avoid all water-absorbing substances. Roads constructed to exclude water do not break in severe winters. On roads where earth and stones are used, the earth in wet weather is mixed with the stones, and absorbing moisture, becomes soft, and allows the stones to move, and rub against each other when acted on by the feet of horses, or wheels of carriages. This attrition of the stones against each other wears them out surprisingly fast, and produces large quantities of mud, which tends to keep the roads damp, and by this means increase injury."

In proof of the correctness of this theory, I would call attention to the condition of Mt. Auburn street, between Main and Holyoke, which was macadamized and then gravelled, as compared with the Main street causeway or Prison Point bridge, which were not, where the stones were put on and allowed to be trodden down to a smooth bed without gravel.

I would suggest the propriety of increasing the appropriation for streets and public squares the coming year, so that more attention can be given to the construction of sidewalks. I also propose, and in fact have already commenced, to remove the several plank sidewalks that are laid in the Second and Third Wards, to replace them by filling in with the dry dirt and ashes that are collected by the City carts, and then to cover them with screened gravel. The plan adopted for collecting the dry dirt and ashes the past year has worked well, and in most cases the citizens have readily complied with the provisions of the order, thereby making a great saving to the City in not being obliged to keep teams travelling every day in the week, in the several Wards, hunting for piles of ashes and dirt. The regular force employed by the City in the street department at the present time, is thirty men and thirteen horses. The men are employed by the month, and in stormy weather work at breaking stone, &c., in the yard, where a large shed has been built for that purpose. I have purchased, during the past year, several thousand tons of stone, at an average rate of about ninety cents per ton, and it costs about thirty cents per ton to crack them. A ton of stone will measure about the same as a yard of gravel, and it costs about one dollar and twenty cents per yard to team our gravel from Belmont, including the cost of getting it out and loading the same. The result, upon comparison of the durability and cost of the two materials, is decidedly in favor of the cracked stone, as the stone will invariably last twice or three times as long as gravel on our main thoroughfares.

PAVING.

The appropriation for Paving, for the financial year ending November 30, 1865, was	$4,506.89
Expended, ...	4,506.89
Amount received and paid to Treasurer, . . .	$682.86

This appropriation was not sufficient to defray the expenditures for paving by nearly one thousand dollars, on account of bills having been left over last year. There will be a necessity for a larger appropriation the coming year, on account of the bills not having been brought in, and work being in progress at the close of the financial year. I originally urged upon the City Government that it would be necessary to have an appropriation of at least six thousand dollars, but they could agree upon no more than four. Over four thousand feet of edge-stone have been set, and nearly four thousand yards of paving have been done the past season. I would again call your attention to the urgent necessity of having more street crossings laid down. There are many places on our main thoroughfares where crossings are much needed that should be laid at the expense of the City, as the rule now in force, that when the abutters will furnish the stone, the City will do the work, will not well apply. For instance, take the crossing on Norfolk Street at its junction with Main, and, also, on North Avenue near Garden Street, where the City and the public are the only abutters; but these are but two of the many places where they are needed.

BRIDGES.

The appropriation for Bridges, for the financial year ending November 30, 1865, was	$1,500.00
Expended, ...	1,426.04
Balance unexpended, ...	$73.96

The several Bridges which the City has to keep in repair are in very good condition, with a single exception, and that is the Western Avenue Bridge so called. Extensive repairs will have to be made on the stone abutment, and I think it will have to be relaid. The timbers and planking are in poor condition, but will probably last, by patching, until spring. I would therefore ask that an appropriation of thirty-five hundred dollars be made for the care and repairs of Bridges for the coming year.

WEST BOSTON AND CANAL BRIDGES.

The appropriation for the above Bridges, for the financial year ending November 30, 1865, was . . .	$7,581.73
Expended, ...	7,581.73
Received and paid to Treasurer, ...	$195.50

This is the largest expenditure that has ever been made upon these Bridges in any one year since they have been taken by the City, and was caused by the absolute necessity of rebuilding two of the old piers, one upon each Bridge, and the extensive repairs that had to be made upon the draw pier on West Boston Bridge which had been seriously damaged by the ice last winter. The appropriation for the coming year will necessarily have to be much larger than ever has been made, as bills are yet outstanding to the amount of about forty-five hundred dollars. Extensive repairs are now in progress upon the running gear of the draw to West Boston Bridge; it will probably be necessary to build a new house on the Boston end of Canal Bridge for the use of the draw-tender, as the City is now paying rent for one in Boston for his accommodation; the old house could not be moved, and was torn down to rebuild the pier. The guard on the south side of the Canal Bridge for about the whole length will have to be rebuilt the coming season. I have just patched and spliced it up in order to save it until spring if possible.

I would earnestly suggest the propriety of having the lamps upon these two Bridges placed in charge of the Superintendent of Bridges instead of the Superintendent of Lamps, as that is the only expenditure connected with these Bridges not placed under my charge. The Superintendent of Lamps entirely agrees with me in this opinion, as the same men are employed to light the lamps that attend to the opening of the draw, &c., and are hired by me as Superintendent of Bridges.

SCHEDULE OF PERSONAL PROPERTY BELONGING TO THE STREET DEPARTMENT.

Thirteen horses,	$3,250.00
Thirteen cart harnesses,	300.00
Nine carts,	360.00
One wagon and harness,	100.00
Four sleds,	275.00
One stone roller,	75.00
One plough,	15.00
Seven snow-ploughs,	49.00
Utensils for work on streets and drains,	100.00
Stable furniture,	60.00
Stone-crusher and steam-engine,	3,000.00
	$7,584.00

Respectfully submitted.

GEORGE L. CADE,

Superintendent of Streets.

RESERVOIRS AND DRAINS.

The appropriation for the above purposes, for the financial year ending November 30, 1865, was	$5,000.00
Expended,	3,683.07
Balance unexpended,	$1,316.93
Amount received and paid to Treasurer,	$546.33

The following is a list of Drains that have been constructed the past season, with their length and capacity.

SPRING STREET DRAIN.

1287 feet long, including ditch; size 15×17 inches brick, 20×24 in wood. Cost,	$1,389.37

256 feet long ; size 15×17 inches. Cost, . . $281.31

Extensive repairs and extensions have also been made upon the Willard Street Drain, and also upon the Dunster Street, and the Otis and Thorndike Street Drains.

Petitions have already been sent in for two Drains ; and a third will probably be received for one in Magazine Street, which is very much needed, as the street is so flat that it is almost impossible to get clear of the surface water.

The appropriation for the above purpose will necessarily have to be at least $6,000 to meet the expenditures.

Respectfully submitted.

GEORGE L. CADE,

Superintendent of Drains.

CITY OF CAMBRIDGE.

In Board of Aldermen, December 13, 1865.

Accepted and ordered to be printed with the next City Documents. Sent down for concurrence.

Attest: JUSTIN A. JACOBS, *City Clerk.*

In Common Council, December 20, 1865.

Concurred.

Attest: JOS. G. HOLT, *Clerk.*

REPORT

OF

THE CHIEF OF POLICE.

OFFICE OF CHIEF OF POLICE,
CAMBRIDGE, Dec. 1865.

To the Honorable the Mayor and Aldermen of the City of Cambridge:

I HAVE the honor to present my second Annual Report, with a statement of the condition of the Department.

The division of the City into Police Districts remains as given in my report of last year.

There are twenty-six men in the regular police service, — viz.: ten in the First, ten in the Second, and six in the Third Police Districts, — five having been added during the municipal year.

New beats have been established and assigned to the patrolmen, agreeably to Section One, of Rules and Regulations, approved March 15th, 1865.

Whole number of arrests during the year, . . .	1,159
Discharged from stations without complaint, . . .	346
Increase of arrests over last year, . . .	114
Decrease of discharges from last year, . . .	16

Of the number discharged without complaint are those only, in whose case circumstances seemed to justify, or humanity to call for the act.

The earnings of the Police for the service of warrants in criminal cases, and the fees of the officers, who are called upon as witnesses, all of which have been paid into the City Treasury, amount to $2,-333.60.

During the year, food and lodging have been furnished at the several stations to 557 persons. Increase over last year, 136. Of this class, more or less are vagabonds and intemperate persons, going from one Police station to another, a miserable set of creatures; against some of them I have entered complaints in the Police Court, and they have been sent to the House of Correction, or the Work-House, as vagrants, — thus ridding the City of a worthless class of beings.

The increase of juvenile offenders is constant. The number of minors arrested (under the age of sixteen years), is 257. It is sad and alarming to know that crime is so fearfully on the increase among those who in a few years are to take the places of those now on the stage of life, and to become the fathers, mothers, and the citizens of the succeeding generation. This calls for a moral remedy which the Police have not the power to apply.

During the year, Mr. James B. Stacy, the clerk of the Police Court, and a constable of the City, has been removed by death. In his removal from us, the Court and the Police have lost a valuable and faithful officer, and our citizens a truly exemplary and Christian man.

The Justice of the Police Court appointed as clerk *pro tem.* Mr. Frederic Goodfellow, a gentleman well known in our City, and one who possesses all the requisite qualifications for the position, — the duties of which he has most ably and satisfactorily performed.

In my report of last year, I suggested uniformity of dress for the Police as desirable. I would again most respectfully ask the consideration of the City Council. If adopted, it would, I believe, improve the general condition of the Department.

The distribution of the patrol men is, I believe, as equal as can be, with the exception, perhaps, of the Fifth Ward, where another man seems to me quite desirable; also, upon the two bridges leading into Boston, the latter being at present less protected than any other part of our City.

There are several beats very much larger than can be properly and faithfully patrolled by the officers, — take for instance, those of Messrs. Russell and Hagar, numbered in the new assignment as 13 and 18, embracing all that part of the City south of Main street, from Putnam street to the Grand Junction Railroad, the division line between the two being Magazine street. There are no better officers in the Department than those upon these beats, but the impossibility of thoroughly patrolling them must be very apparent.

If the City Council can suggest any practical improvements in this important branch of municipal Government, every such improvement should be received and adopted as a harbinger of good to the City.

Many of our citizens have expressed to me their approval of the manner in which the Police have performed their duties during the year, and they respect the officers of the law if they respect themselves. Our citizens are not to be governed by brute force; to attempt to do so would be incompatible with the genius of our government, and inconsistent with the character of our people.

Whatever rules and regulations may be adopted for the Police will be of little practical use unless strictly complied with. To accomplish this, the coöperation of every officer in the Department is required. There are many valuable officers who feel the importance of strict discipline, while others *may* regard every attempt to enforce and maintain it as onerous and derogatory. Such men should seek vocations where no restraints are necessarily imposed.

Such elements of character are incompatible with Police service, and with the proper organization of a force composed of men who are engaged in the same common service, and must of necessity be governed by the same rules. There is the same difference in men who are appointed to do police duty as in other vocations in life. Some men are always prompt and faithful in the service of their employers, ambitious to promote their interests, while others, with a careless indifference, disregard all considerations, except salary.

In fact, ambition with a proper degree of intelligence and fidelity, is an essential element in the character of an officer, while the want of it renders him unfit for the position.

Justice demands that I should bear testimony to the general fidelity of the present members of the force. The rules and regulations as approved by the Mayor and Aldermen, March 15th, 1865, have been generally observed.

If, in the discharge of my official duties, I have contributed in any humble degree, however noiseless and unassuming, towards the peace, quiet, and general good order of the City — promoted the security of the lives and the property of our citizens, and at the same time enforced the laws and ordinances of the City, it will be a most satis factory result.

Respectfully submitted,

FORDYCE M. STIMSON,
Chief of Police.

REPORT

OF

ROLAND LITCHFIELD, JR.,

SUPERINTENDENT OF LAMPS.

To his Honor the Mayor and Board of Aldermen of the City of Cambridge:

GENTLEMEN, — In obedience to the City Ordinance, I herewith submit my annual report in relation to the Lamp Department.

STREET LAMPS.

District One,	164	Gas,	3	Fluid.	
" Two,	174	"	31	"	
" Three,	57	"	25	"	
	395		59	Total, . .	454

Five of the above were added during the past year.

The expenses of the Street Lamps for the year were as follows:

For Gas, ...	$5,581.56
" Excise duty, ...	489.51
" Lighting, ...	2,019.86
" Fixtures and repairs, ...	154.21
" Naphtha, fluid, and oil, . . .	324.16
" Glass and setting, ...	252.14
" Matches, putty, wicking, . . .	35.81
" Printing, ...	5.00
" Salary of Superintendent, . . .	200.00
Total, ...	$9,062.25

The average cost through the year, for each lamp burning gas, was six cents and three mills per night; and the average cost of each lamp burning naphtha, fluid, or oil, was two cents and four mills per night.

Four men are employed to light the lamps, and keep the lanterns clean; and they are paid thirty-seven and a half cents per month for each lamp.

The posts and fixtures are in good condition.

BRIDGE LAMPS.

The number of lamps on West-Boston Bridge is . .	37
and on Canal Bridge, ...	15
Total, ...	52

The expenses of the lamps during the year were as follows:

For Naphtha and oil, ...	$286:05
" Lighting, ...	208.00
" Glass, ...	24.96
" Lamps and repairs, . . .	50.43
" Wicking and matches, . . .	7.93
Total, ...	$577.07

The draw-tenders are employed to take charge of the lamps. Naphtha and oil have been used at an average cost of two cents and three mills per night for each lamp.

I would again suggest the necessity of lighting the Causeway and Bridges with gas.

Respectfully submitted,

ROLAND LITCHFIELD, Jr.

Superintendent of Lamps.

Cambridge, Dec. 1, 1865.

REPORT

OF

THE TRUSTEES OF THE DANA LIBRARY.

The Trustees of the Dana Library submit to the City Council their eighth annual Report:

During the year ending November 30, 1865, there have been added to the library two hundred and twenty volumes; of which, two hundred and one are from the City, four from W. V. Spencer, one from Dr. Wellington, one from the Bunker-Hill Monument Association, eleven from Hon. Samuel Hooper, one from C. P. Creasy, and one from W. P. Atkinson. Three pamphlets have also been added, — one from the City, one from Judge-Advocate Holt, and one from Hon. Isaac Livermore.

The whole number of volumes in the library, exclusive of pamphlets and periodicals, is three thousand and twenty-three. Eleven thousand and five books have been given out during the year, making an average of about two hundred and twelve per week, and being an increase of two hundred and fifty-three over last year. Seven books have been lost during the year. The Catalogue, the preparation of which was commenced in 1864, has been completed and printed at an expense of $549.31, a small part of which has already been, and more doubtless will be, received back from the sale of the catalogues.

The Trustees would call the attention of the City Council to the very urgent need of more room for the use of the library, with the earnest hope that steps will soon be taken towards supplying this want.

The appropriation for the year ending November 30, 1865, was $1,111.77.

EXPENDITURES.

Librarian's salary,	$187.50	
Books,	338.49	
Binding,	25.22	
Newspapers, printing, &c.,	11.25	
Catalogue,	549.31	
		$1,111.77

There have been received from subscriptions and fines,	$296.40
From sale of catalogues,	36.00
Total,	$232.40

All of which has been paid into the City Treasury.

It will therefore be necessary for the City Council to make for the financial year ending November 30, 1866, an appropriation of $632.-40, for the Dana Library, that being the aggregate amount of

Received for subscriptions, &c., for the year 1865,	$332.40
Yearly appropriation,	300.00
	$632.40

All of which is respectfully submitted.

J. WARREN MERRILL,
SUMNER ALBEE,
W. W. WELLINGTON,
Trustees of the Dana Library.

CITY OF CAMBRIDGE.

In Board of Aldermen, Dec. 27, 1865.

Accepted, and ordered to be printed with the next City Documents.

Sent down for concurrence.

In Common Council, Dec. 27, 1865.

Concurred.

Attest: JOS. G. HOLT, *Clerk*

REPORT

OF THE

TRUSTEES OF THE DOWSE INSTITUTE.

To the Honorable City Council of Cambridge:

In the Declaration of Trust, establishing the Dowse Institute, it is provided that the Trustees shall annually make to the City Council "a detailed report of their doings, including an exact account of their receipts and expenditures." In accordance with this provision, the Board would respectfully submit the following report:

Two Courses, each of eight Lectures or other Exercises, were given the last season in the City Hall to different audiences, in conformity with the following programme:—

1st COURSE.	2d COURSE.
O. W. Holmes,	E. H. Chapin,
J. G. Holland,	G. W. Curtis,
F. H. Hedge,	A. H. Quint,
A. L. Stone,	J. M. Manning,
J. P. Thompson,	R. H. Dana, Jr.,
T. M. Clark,	A. H. Bullock,
Readings,	Readings,
Musical Concert.	Musical Concert.

The Readings for the First Course were by Mr. and Mrs. E. L. Davenport; those for the second course by Mr. J. E. Murdoch.

The Musical Concerts were given by the Mendelssohn Quintette Club.

The annual report of the Treasurer, a copy of which is herewith transmitted, contains a statement of receipts and expenditures.

The following is an abstract of said report:

Dr.

To paid for lectures, concerts, &c.,	$1,027.00
" " " printing and advertising,	42.00
" " " registering names, &c.,	31.80
" " " care of hall, door-keepers, &c.,	68.00
" " " use of furniture, and carpenter's work,	5.75
" " " stationery, postage stamps, &c.,	5.00
	$1,179.55

Cr.

By balance brought forward,	$18.66
" sale of tickets,	469.00
" interest on Dowse Fund,	600.00
" amount borrowed of Treasurer,	91.89
	$1,179.55

The expenditures of the last year having exceeded the receipts, and the expenses of the lectures having of late rapidly increased, the Trustees have found it necessary to reduce the number of lectures, and to raise the price of tickets. A course of ten Lectures will be given the present season; and, in addition, a Concert of Instrumental and Vocal Music. A charge of one dollar each is now made for season tickets.

The registration of names, practised for several years, has been given up. It proved a cumbrous and unsatisfactory arrangement, being attended with trouble and expense, and apparently giving satisfaction to nobody. The long lists of names, recorded in former years, will remain as mementos of the thirst for knowledge which then pervaded the community, while they awaken regrets that so many persons were doomed, each year, to disappointment. This thirst for knowledge, however, seems to have been partially assuaged; for at the sale of tickets to the present course which was publicly advertised, and was open to all, no extraordinary excitement was manifest, and every one who desired tickets was able to obtain them.

The Trustees cannot close this report without alluding to the re-

moval by death, during the year, of their much esteemed friend, Mr. George Livermore, the founder, under the will of the late Mr. Dowse, of this Institute, and one who ever felt and manifested a lively interest in its welfare and prosperity. The loss to the community of such a man, in the prime of his life, and in the midst of his usefulness, can hardly be appreciated. At a special meeting, addresses were made and resolutions were adopted, expressing the sentiments of the members of this Board in reference to this sad event; and the passage of time only serves to deepen the feelings which then found utterance.

Respectfully submitted.

CHARLES DEANE,
J. WARREN MERRILL,
W. W. WELLINGTON,
JOHN S. MARCH,
JOHN C. DODGE,
} *Board of Trustees.*

CAMBRIDGE, December 27, 1865.

CITY OF CAMBRIDGE.

In Board of Aldermen, December 27, 1865,

Accepted and ordered to be printed with the next City Documents. Sent down for concurrence.

Attest: JUSTIN A. JACOBS, *City Clerk.*

In Common Council, December 27, 1865.

Concurred.

Attest: JOSEPH G. HOLT, *Clerk.*

REPORT

OF

THE SCHOOL COMMITTEE

FOR THE MUNICIPAL YEAR ENDING JANUARY, 1866.

THERE is not much in the history of our public schools for the last year which calls for extended remark. No important changes have been made in the system of education, and no unusual ones have occurred among the teachers who administer it. At the end of the Summer Term, Mr. Malcolm W. Tewksbury resigned the Mastership of the Shepard Grammar School. Mr. Daniel B. Wheeler, who had commended himself to us by his successful management of the Washington Grammar School, during a six months' absence of Mr. Mansfield, was appointed to this place. Leave of absence had been granted to Mr. Mansfield for that time, in the hope that he might recruit his health, which had been seriously impaired by his long and faithful service. We are sorry that this object was but partially accomplished. We have also to note, with much regret, the resignation of a very accomplished teacher in the High School.

No school-houses have been built during the year. The urgent need of additional accommodation for Primary Schools was reported by the School Committee of 1864. That need has, of course, become more pressing; and the City Government should attend to it without another month's delay. On no account should vestries and other

public halls be used for schools. They are generally wretched make-shifts, which sacrifice more or less both the education and the health of the children condemned to use them. The Quincy Primary School has now for two years been kept in the vestry of a church; the children are perched up on slippery settees, in no way adapted to the size and conformation of their bodies, with their legs dangling or insufficiently supported. Their restlessness and discomfort are painful to witness, and must be every way a sore trial to the teacher. We should deem ourselves culpably negligent, did we not demand immediate relief for these sufferers, and for all others who are in the same plight. We again renew a suggestion, twice made before, that more care should be taken with the plan of Primary School-houses. The locations should be carefully selected, and in no case should portions of Grammar School buildings be assigned to Primary Schools. Frequent complaints are made of young children suffering from the rudeness and recklessness of older scholars. For this reason, and also because it is otherwise unsafe, as well as inconvenient, to send very young children a long way, their schools should be brought as near as possible to their homes. Hence small Primary Schools are more desirable than larger ones.

In their last report the School Committee announced that if the prevailing high prices of the means of living should continue, the salaries of teachers, which had been very moderately increased, would require to be further raised. This has been done. Nothing could be more obvious than that our teachers could barely live on their pay. We had express evidence that some of them could not do that. The female teachers have, many of them, been subjected to a sort of dependence on favor, most humiliating to their self-respect, and tending in several ways to diminish the respect felt for them by their pupils. Besides intellectual and moral fitness, we beg to observe, cheerful spirits, an independent position, and a decent personal appearance, are necessary for a teacher; and these are incompatible with such salaries as our female teachers have been receiving. While upon this point, we wish to say a word about a

rather delicate matter. Elaborate elegance of dress would be unsuitable for school work. A beautiful taste is somewhat uncommon; but a neat and lady-like appearance is a thing next to indispensable in a female teacher. Without this, she must fail of a considerable part of the influence she should exert. Is it not most impolitic to set the pay of such a teacher so low that she cannot possibly do herself justice in this respect? But we have no occasion to assume the tone of apology or of remonstrance. The public, so far as we know, notwithstanding the severity of its burdens, has fully acquiesced in the justice of what has been done for our teachers, and we doubt not that the consequences will appear in an agreeable way.

The High School always occupies, and rightly, a large share of the attention of our citizens. The new School House continues to give entire satisfaction, and is justly an object of admiration to all who inspect it. The whole number of pupils is nearly the same as last year, and the Fourth Class is, at the present time, a little larger than the whole number which were admitted in September, 1864. Eight boys entered Harvard College at the last Commencement, and the number preparing to enter college next year is also eight. Only twenty-one, or less than one-fifth of the class admitted this year, chose the "Shorter Course." A slight change has been made in the scheme of study for the first two years, adapting it better to the requirements of those who can remain only that time in the school. The only important feature in this change is the substitution of French for Latin. The name "Shorter Course" is now given to a course of three years, for the faithful accomplishment of which a Diploma is now to be awarded, which was not done before. It is to be borne in mind, however, that the interests of those who propose to pass but two years in the school are in no way sacrificed; on the contrary, they are favored.

The amount of Geometry required of pupils who take the classical course has been somewhat reduced, only so much being now studied as is exacted for admission to Harvard College.

Some changes, which are regarded as improvements, have been made in the text-books used in the High School. These changes have caused no expense to the pupils.

A liberal appropriation of $2000 was made during the year by the City to furnish the High School with a suitable Philosophical, Chemical, and Astronomical apparatus. Great care was taken in preparing a list of the most necessary articles, the College professors in the Physical Department kindly assisting with their advice. Such things as could be obtained in America were procured at once. A considerable part of the more delicate instruments, however, had to be ordered in Europe. Of this, an optical apparatus, costing nearly $900, has already come to hand. It includes a Bunsen's battery of fifty elements, a set of mirrors, a spectroscope, an electric lamp and lantern, sets of prisms and crystals, and other necessaries. An excellent telescope has also been purchased, at the price of $285, from Mr. Alvan Clarke, of Cambridge, a maker now of world-wide reputation. Electrical apparatus is expected soon. All of this kind of furniture which now belongs to the school is in the best order. A moderate sum will be required from time to time to replenish chemicals and the perishable part of the chemical apparatus.

The Library of the High School has been increased during the year by the addition of about $250 worth of books, not including a sum of money, the proceeds of lectures given by Prof. Agassiz in behalf of the school a few years ago, amounting with interest to about $180, which has been expended on works of Natural History, in accordance with the directions of the donor.

It is still hoped that the High School Association may do something for the ornament of the School House. It may not be improper to suggest that their expressed intention could in no way be more agreeably carried out than by giving a tasteful color to the white plaster of the Hall, and hanging the walls with large photographic views of natural scenery, and of renowned buildings and other works of art.

The general condition of our schools is believed to be as good as it ever was, and we may rightly claim to have made improvements with increasing experience. That much remains to be done for the perfecting of both system and practice is as true of these as of all human institutions. How much they lack even of the perfection at present conceivable is matter of controversy. About some things the School

Committee are not at present agreed among themselves. Of these we may mention the utility of the study of Grammar, as now pursued, and that of the Grammar and Primary pupils passing so many hours in school. In a report which is to be signed by all the members of the committee, such subjects cannot be discussed. We all consent, however, to refer these questions to our successors. With these we would also put another subject, on which we might perhaps come nearer to an agreement. Our schools are now so numerous and require so much attention, the unsettled questions pertaining to methods of education are so various and so pressing, that it would be of great advantage if a general superintendence could be assigned to one competent man. A man of great activity would be needed for the execution of one part of such a duty, and large information and good judgment for another part. The duties of such an officer would be, for example, what is required of the Superintendent of the Public Schools of Boston: that is, in general terms, to study the Public School system, both of America and of foreign countries, and suggest improvements in our own; to obtain a personal knowledge of the condition of *all* our public schools, with a view to bringing all of them as nearly as may be to an equal standard of efficiency; to advise the Teachers and the School Committee on the best methods of instruction and discipline; to contrive means for bringing under instruction that large number of children which, in a place populated to a considerable degree by foreigners, will always seek to evade it, or be deprived of it by their ignorant parents; and to consult with the proper agents of the City Government as to the building and bettering of school houses, and the methods of best securing the health and comfort of pupils and teachers. Such an officer, supposing him to be possessed of the requisite qualifications, would undoubtedly be of very great use. School committees, granting them to be always constituted of the best materials, are constantly changing. If a man who is busily occupied undertakes to do all that he can to be useful, he commonly finds the labor too much for him, and (supposing him not to be dropped by his fellow-citizens) soon retires. The fair performance of only the routine duties of the place demands in Cambridge the devo-

tion of a great deal of time. This time should be and is most cheerfully given, but a great deal more time would be required of him who would thoroughly master the subjects with which he has to deal, — in fact all his time. We think, therefore, that we cannot better make up for the deficiencies of which we are conscious ourselves than by recommending to our successors to consider at once the expediency of establishing the office of Superintendent of Public Schools. While making this recommendation we must call attention to the exceeding importance of making *no mistake in the selection of the man*, if such an office should be created. From the nature of the case, the value of such a superintendent depends much upon the time he continues in his place.

Two other matters must not be entirely passed over. There were 6,999 children, between the ages of five and fifteen, residing in this City on the first of May last; and at this moment there are 5,335 belonging to all the Public Schools. Making allowances for those receiving private instruction, it is clear that there is a large number who ought to go to school and do not. Some of these are irregularly employed in doing small chores, or in the demoralizing business of driving cattle on market-day; not a few in the glass houses at East Cambridge. Wherever manufactures are carried on extensively, there is a demand for the cheap labor of children. Accordingly, the young, even the very young, are kept from school and set to work, frequently to the destruction of their health, always to their great detriment in other respects. This grievance has not, as yet, become very serious with us; but it will increase, and it is against law and right that there should be so many cases as there now are in East Cambridge.

Finally, the very young children of poor parents require peculiar consideration. Some of us think that children of five or six cannot well bear strict daily restraint for as many hours as they have years. Nevertheless, such children are very frequently not as well off at home as in a school-room. Their parents are often away, they are exposed to cold, or to bad air, or to accidents. Might not such children be made very happy and comfortable, and at the same time be learning

something,— good manners, say, and orderly ways,— if they were kept separate from older ones, and treated in a much freer way; spending all the afternoon hours, perhaps, in learning to use their powers of observation ("object learning"), in singing, especially while in motion, and in other employments usual in what are called *kindergarten* schools? Some of our teachers treat the younger children somewhat after this fashion. We have been glad to see beads and picture-books, as well as slates, employed in considerable quantities for their amusement. But in most cases we have observed that the alphabet scholars, when tired of their slates, have nothing to entertain themselves with but their legs, which they twist about until posturing ceases to afford them relief. Yet as long as children of five and six are mixed up with older scholars, they must be kept tolerably still. Separated from others, they might be treated more according to nature, and yet kept under beneficial care and control. What has been said of children of five and six years is true in due degree of those of seven and eight. The simple apparatus which would be needed for a modified *kindergarten* system, would, of course, be supplied at the public expense.

J. WARREN MERRILL, *Chairman, ex officio.*

FRANCIS J. CHILD,
HENRY W. MUZZEY,
CHARLES A. SKINNER,
W. W. WELLINGTON,
JAMES F. POWERS,
JOHN B. TAYLOR,
AUSTIN J. COOLIDGE,
SUMNER R. MASON,
JAMES R. MORSE,
C. W. ANABLE,

School Committee.

TABULAR VIEW OF THE PUBLIC SCHOOLS OF CAMBRIDGE, JANUARY 1, 1866.

NAME OF SCHOOL.	TEACHERS.	SALARY.	NO. OF SCHOLARS, JAN. 1, 1866.
High School,	Mr. William J. Rolfe,	$2,300	259
	" William F. Bradbury,	1,800	
	" Joseph A. Gillett,	1,600	
	Miss Mary F. Peirce,	800	
	" Rebecca Shepard,	700	
	" Caroline Child,	700	
	" Alice G. Hancock,	600	
	" Emma A. Scudder,	600	
Allston Grammar,	Mr. Benjamin W. Roberts,	1,800	521
	Miss Lizzie B. Winnett,	550	
	" Mary E. Andrews,	550	
	" Sarah M. Gray,	550	
	" Ellen J. Hodges,	550	
	" Matilda Morse,	550	
	" S. Ellen Hearsey,	550	
	" Sarah D. Whiting,	550	
	" Anna F. Stanley,	550	
	" Caroline A. Pitkin,	550	
	" Emily R. Pitkin,	550	
Harvard "	Mr. Aaron B. Magoun,	1,800	258
	Miss Catharine Richardson,	550	
	" Helen A. Dodge,	550	
	" Addie H. Wellington,	550	
	" Mary E. Wyeth,	550	
	" Martha M. Damon,	550	
	Mrs. Lydia S. King,	275	
Putnam "	Mr. Francis Cogswell,	1,800	289
	Miss Sarah M. Burnham,	550	
	" Anna B. Josselyn,	550	
	" Maria E. Spare,	550	
	" Frances E. Putnam,	550	
	" Almira L. Hayward,	550	
Shepard "	Mr. Daniel B. Wheeler,	1,600	205
	Miss Abby E. Worcester,	550	
	" Kate C. Lowell,	550	
	" Olive E. Fairbanks,	550	
	" Augusta M. Howe,	550	
Thorndike "	Mr. Ruel H. Fletcher,	1,800	280
	Miss Anna W. Averill,	550	
	" Eunice B. Dyer,	550	
	" Martha A. Martin,	550	
	" Mary G. Parker,	550	
	" Emma F. Munroe,	550	
Washington "	Mr. Daniel Mansfield,	1,800	305
	Miss Lucy A. Downing,	550	
	" Florence J. Reed,	550	
	" Adeline M. Ireson,	550	
	" Catharine P. Green,	550	
	" Mary F. Porter,	550	
	" M. M. Nelson,	550	
Webster "	Mr. Alvah C. Smith,	1,800	396
	Miss Eliza K. Brackett,	550	

NAME OF SCHOOL.	TEACHERS.	SALARY.	NO. OF SCHOLARS, JAN. 1, 1866.
Webster Grammar,	Miss Lucille C. Bancroft,	550	
	" Eliza D. Fisher,	550	
	" Jane Dallinger,	550	
	" Abby M. Webb,	550	
	" Harriet E. Hill,	550	
	" Louise D. Bullard,	550	
	" Helen J. Maiers,	550	
Allston Primary,	" Mary F. Emerson,	550	114
	" Sarah F. Bryant,	425	
Boardman "	" Carrie M. Brown,	550	47
Bridge "	" Elizabeth E. Dallinger,	550	74
City "	" Etta S. Adams,	300	36
Craigie "	" Harriet A. Butler,	550	111
	" Mary E. Willis,	425	
Dana "	" Isabel L. Barry,	550	131
	" Edith A. Barry,	475	
Dudley "	" Abby F. Lothrop,	550	75
Dunster "	" Martha H. Clarence,	550	152
	" Sarah B. Waitt,	550	
Eastern "	" Mary A. Coburn,	550	129
	" Frances E. Pendexter,	550	
Felton "	" Emeline Sparrow,	550	92
	" Ariadne Blish,	550	
Gannett "	" Sarah J. A. Davis,	550	140
	" Ellen M. Pike,	550	
	" Mary G. Kelley,	475	
Harvard "	" Frances A. Hyde,	550	72
Lechmere "	" Martha J. Avery,	500	76
Mason "	" Emily M. Mitchell,	500	
	" Lucy M. Southworth,	500	150
	" Susan M. Cochran,	425	
Otis "	Mrs. Abby S. Taylor,	550	
	Miss Sarah D. Mitchell,	550	254
	" Susan M. Pendexter,	550	
	" Mary E. Cannon,	475	
Putnam "	" Lucy A. Draper,	550	79
Quincy "	" Charlotte E. Jewell,	550	115
	" Anna E. Rockwood,	475	
Sargent "	Mrs. Anna M. Harrod,	550	
	Miss Frances J. Harrod,	550	225
	" Mary L. Tower,	475	
	" Martha J. Cutting,	425	
Shepard "	" Lucy T. Sawyer,	550	224
	" Emma L. Hutchins,	500	
	" Eveline A. Sawyer,	475	
	" Amelia Pasco,	475	
Thorndike "	" Martha H. Butler,	550	112
	" Mary E. Burdakin,	475	
Washington "	" Ellen M. Sawyer,	550	166
	" Marianne M. Webb,	550	
	" Anna E. Hutchins,	425	
Webster "	" Mary A. Tarbell,	550	248
	" Mary E. Sawyer,	550	
	" Ellen A. Ricker,	475	
	" Emma M. Sheldon,	425	

TEACHER OF MUSIC, Mr. Nathan Lincoln, $1,400.

SUMMARY

Number of pupils in High School,	259
" " Grammar Schools,	2,254
" " Primary Schools,	2,822
	5,335

COST OF INSTRUCTION.

High School,	$9,100
Grammar Schools,	36,325
Primary Schools,	24,525
Music,	1,400
	$71,350

Number of pupils belonging to Public Schools, January 1, 1866,		5,335
" " " " " " 1865,		5,277
Increase during the last year,		58

Increase of pupils, 1860,	272
" " 1861,	172
" " 1862,	262
" " 1863,	226
" " 1864,	200
" " 1865,	58

Number of Schools, 30; Number of Teachers, 108.
Cost, per pupil, for instruction, $13.37.

REPORT

OF THE

TRUSTEES OF THE SANDERS TEMPERANCE FUND.

The Trustees of the "Sanders Temperance Fund," in accordance with the requirements of the ordinance regulating the same, respectfully submit their first Annual Report, for the financial year ending November 30, 1865.

The Fund of $10,000 is invested in the notes of the City, bearing six per cent. interest, payable quarterly.

The Trustees early in the year reëlected Frederick Goodfellow as the "worthy man who should be constantly employed as a missionary in the cause of temperance, in reforming old drunkards, preventing young drunkards, and abolishing, as far as possible, the use of all intoxicating articles," paying the said agent, by their order, the sum of $150 each quarter, as directed by the ordinance.

Mr. Goodfellow has submitted the following report of his doings to the Trustees; and, in order that the City Council and citizens may see the operations of the said agent, and also hoping it may incite the liberally disposed philanthropists to increase the amount of available funds to be used by the agent in carrying forward this most commendable object, they append said report, and ask to have it printed in the City Documents.

Respectfully submitted,

J. WARREN MERRILL,
JOHN S. MARCH,
G. B. LOTHROP,
ARTHUR MERRILL,
} *Trustees of the "Sanders Fund."*

To the Honorable the Board of Trustees of the "Sanders Temperance Fund."

GENTLEMEN: — The close of the municipal year seems to be an appropriate season for a brief recital of the doings of your agent, in endeavors "to reform old drunkards, in preventing the formation of new ones, and abolishing the use of all intoxicating beverages."

On receiving notice of his appointment, he sought the advice of many of the advocates of total abstinence, as to the best mode of procedure, for the realization of the desires of the late Mr. Sanders; the result of which was the development of such widely differing views, that he would have declined the appointment, had there not been unmistakable assurances of hearty sympathy in any course which should be honestly pursued, with a view to the accomplishment of the objects of the founder of the fund.

Among his first experiences, the necessity of providing a temporary home for a certain class of actual inebriates, or of those in immediate danger of becoming such, became apparent. He therefore secured a residence wherein he could provide for two or three such, under his immediate supervision. To enable him to do this, he was under the necessity of appealing to friends of the cause for pecuniary assistance. The appeal was at once responded to by Mr. Alderman George B. Lothrop, whose interest in the agency has been continuous. Through that gentleman's kindness, two rooms have been furnished in a suitable manner, to provide, when requisite, for the care and comfort of two or three persons.

As a means to successful effort among a certain class of inebriates, your agent thought that daily visits to the Police Court, for the purpose of personal intercourse with such as were arrested for drunkeness, would lead to the acquirement of the confidence of some, and prepare the way for more extended efforts. He stated his views to His Honor, J. S. Ladd, Esq., Justice of the Police Court, and to Fordyce M. Stimson, Esq., Chief of Police. They coincided in the general view, and have cordially coöperated in efforts in that direction. For the many valuable suggestions and personal courtesies received from those gentlemen, your agent desires to record his thanks. In this connection he records his acknowledgments for valuable assistance and courtesies from the Board of Overseers of the Poor, Capts. Twist and Boynton, and the members of the Police force generally, and also to the officers of the House of Correction at East Cambridge.

Your agent refers, with pleasure, to a meeting called by His Honor the Mayor, in the Council Room, at the City Hall, on the 14th day of February. Among the gentlemen present were His Honor the Mayor, Ex-Mayors George C. Richardson and Z. L. Raymond, Esqs.; the Revs. C. W. Anable, S. R. Mason, L. R. Thayer, and W. R. Stone; the Hons. J. M. S. Williams and J. C. Dodge; Aldermen George B. Lothrop, J. L. Sands, A. Mead, and F. L. Chapman; Councilmen S. C. Knights, and A. H. Safford, with other well known temperance men. The generous expression of sympathy with the general movement in favor of total abstinence from the use of alcoholic beverages, by that meeting, was a great encouragement. Although the meeting did not result in any definite plan of operations for your agent, he was convinced by it that his duty lay wholly in the path of moral suasion, and that he should apply himself to efforts to secure the establishment of temperance juvenile societies, in connection with churches, Sabbath schools, and the existing temperance societies, and to the consolidation of the temperance sentiment of the community, through the existing temperance organizations. Active participation in the exercises of nine of the temperance societies in the city has enabled him to present his views in these particulars with a fair measure of success; and he rejoices in the belief that he has the sympathy and coöperation of the whole of them. He has labored continuously in efforts upon individuals wherever he has had opportunity, by day, and by night, privately and publicly; and, while he has no pleasing array of triumphs to record, he has the satisfaction of knowing that he has been instrumental in securing individual self-examination, on the part of many persons; and has contributed to the consolidation of temperance effort in many ways. While his labors through the day are continuous, much of his work is necessarily at night, the time not having yet come, when meetings can be holden for temperance advocacy, except after the usual business of the day has been transacted.

Among the many cases of family suffering from the intemperance of one or both the parents, very few instances of absolute want have come under the notice of your agent; yet he has had frequent occasion to lament his inability to assist parties in other modes than those of remonstrance or advice.

Believing as he does that the agent of "The Sanders Temperance Fund" should endeavor to become the confidant and adviser of all classes of inebriates, he refrains from making special

mention of instances of good accomplished, or placing on record details of folly or madness resulting from inebriety, from the fact that many of whom such record could be made have conquered or may conquer the fearful cravings of appetite, indulgence in which has led to acts which can only be fitly characterized as demoniacal. Enough of food for reflection can be obtained from the perusal of the following statistics of crime and drunkenness, furnished by the records of the Police Court of this city, as follows :

Statistics of Crime, etc., from December 1*st*, 1864, *to December* 1*st*, 1865.

Whole number of arrests by the Police, .	1,157
" " " of juveniles, . .	257
" " Discharged from station houses,	344
" " Cases of drunkenness before the Court, . . .	315
" " of liquor nuisances, common sellers, and keepers of disorderly houses,	46

The disposition of the cases of drunkenness before the Court was as follows :

MALES.

Committed for non-payment of fines and costs, . . .	88
Paid fines and costs, ...	109
Cases on file or probation, ...	30
Discharged by Court, ...	3
Committed to House of Correction as common drunkards, .	15
" Workhouse, as " " .	3
Placed on file, ... " " . .	4
Discharged, on disclosing from whom liquor was obtained, .	4
Total of males, ...	256

FEMALES.

Committed for non-payment of fines and costs,	25
Paid fines and costs,	6
Cases on file, or probation,	8
Discharged by Court,	1
Committed to House of Correction as common drunkards,	5
" to Workhouse as " "	8
Discharged on disclosing from whom liquor was obtained,	6
Total of females,	59

Of these three hundred and fifteen cases, brought before the Court, ninety-one were non-residents of Cambridge; eighty-one of whom were males, and ten females. It is but proper to state here, that quite a number of the persons were arrested more than once; some, three or four times. From this it will be seen that the number of citizens of Cambridge before the Court for drunkenness, during the past year, has been less than two hundred.

The whole number of cases of Liquor Nuisance, Common Sellers, and Keepers of Disorderly Houses, was forty-six; of these, eleven paid fines and costs, amounting to $437.25; twenty-six cases were appealed; the whole amount of fines and costs in the appealed cases, amounted to $3,354.25; one served six months in the House of Correction, his appeal not being sustained; one was committed for non-payment of fine of $200 and costs; three were *nol. pros'd*, on furnishing bonds to give up the business, and not engage in it in the future; three were discharged by order of the Court, and one keeper of a disorderly house was sentenced to a fine of $50, and six months' imprisonment in the House of Correction, and to give bonds in one thousand dollars for good behavior for twelve months. Twelve of the nuisance cases were from Somerville and Watertown. Seven prosecutions for liquor nuisance have been commenced where the parties have absconded, and several places have been closed by parties threatened with prosecution.

There have been twenty-two cases of vagrancy before the Court; two were discharged; one was placed on file; five males and six females were committed to the Workhouse, and eight males to the House of Correction, for terms varying from one to six months each.

The great number of juveniles arrested (257), demands the earnest consideration of all thinkers in the community. Although unprepared to give statistical information on this point, your agent is confident that five-sixths of the cases are consequences of the drinking habits of the parents or guardians. Many of the cases are petty thefts, malicious mischief, or unruly behavior. Earnest endeavors in the work of temperance reform will be the most effectual mode of operating on this class of offenders. Parents and guardians, becoming total abstainers, will discipline their own households. Children, not having before them the continual example of drinking customs, and enlisted in Bands of Hope, or Sabbath School temperance societies, will not exhibit those deplorable traits, for which so many become subject to arrest by the police, and thus become a reproach to the community in which they live. Your agent had the pleasure of presenting to the Chief Marshal of the great juvenile temperance demonstration on Boston Common, on the 17th of last June, twenty-two hundred of the children of Bands of Hope and Sabbath School temperance societies in Cambridge. They were escorted, with banners and music, by upwards of eight hundred adults, all pledged to total abstinence.

A plan of organization for a general association of the various juvenile temperance associations in the city, drawn up by your agents has been received with favor, and he hopes for very gratifying results from its adoption.

All the temperance societies in the city are doing well, and there are numerous indications of quickened zeal in the work of organization of the temperance thought and effort in this community. A realization of the dangers resulting from habits of drinking is all that is requisite to secure the coöperation of our people in measures to make the drinking customs and usages of our time things of the past.

It has been the privilege of your agent to officiate as Clerk *pro tem.* of the Police Court during the last sickness, and since the death, of Mr. James B. Stacy. The experience gained in that position he hopes to apply in the prosecution of his peculiar labors.

Your agent indulges the hope that facilities will be afforded him to operate on victims of appetite by information of cases where it is desirable that action should be taken; this information must come, in a great measure, from the immediate friends of the parties. Information, in such cases, will be regarded as confidential, and all the

instrumentalities which can be influenced by him will be brought to bear on each case. Many cases of occasional inebriety are overlooked or palliated by friends, in the fond hope that each one will be the last. The result too frequently is, that the occasional inebriate becomes the confirmed sot, when, had friends acted with firmness in the earlier stages, the agony and shame would have been avoided. Without the coöperation of persons having the means of pointing out cases of incipient inebriety, the labors of your agent must in a great measure be devoted to those who pass into the hands of the Police. With the assistance of a thoughtful community, many may be spared the sad experiences, resulting from loved or respected ones passing away in the darkness of the drunkard's fate.

With thanks to your honorable Board, for the consideration he has received at your hands, and grateful acknowledgment of the assistaace he has received from many personal friends, this report is respectfully submitted.

FREDERIC GOODFELLOW,

Agent of the "Sanders Temperance Fund."

REPORT

OF

THE CAMBRIDGE WATER BOARD.

CAMBRIDGE, Dec. 8, 1865.

IN accordance with the requirement of the "Ordinance providing for the Care and Management of the Cambridge Water Works," the Cambridge Water Board would respectfully present their first

REPORT.

The Cambridge Water Works came into possession of the City by purchase on the 28th of April of the present year, and continued by vote of the City Council in the care of the Mayor until the organization of this Board on the 9th of June, 1865.

The purchase included all the real and personal property of the Cambridge Water Works, with the exception of the sinking-fund which had been provided for the ultimate payment of the bonds of the Company, and included cash and claims due the Company in the hands of the Superintendent to the amount of one thousand four hundred and eleven dollars and ninety-five cents, which deducted from the sum paid, by agreement, two hundred and ninety-one thousand four hundred and eighty dollars, makes a cost of two hundred and ninety thousand and sixty-eight dollars and five cents. To this should be added two hundred and ninety-one dollars and fifty cents, the amount due to sundry persons for street-mains put in by them, and payable in water, making a grand total of two hundred and ninety thousand three hundred and fifty-nine dollars and sixty cents.

As soon as this Board was organized, Mr. George W. Fifield was appointed Superintendent, and his Report to the Board is herewith transmitted.

Justin A. Jacobs, Esq., was elected Clerk of the Board; and Thomas G. Bruce, for many years the capable and efficient engineer of the Water Works, was appointed Engineer of the Pumping Engines; and Calvin C. Smith, Foreman on the Works. A code of By-laws was adopted, and the Board proceeded to examine the works to ascertain their condition and what was necessary to put them in good working order. It was found that the well-room at the Pond had been much injured by the ice, and needed renewal, which was ordered; and a substantial granite structure has been put in the place of the imperfect and decayed one. The roof of the engine-house was repainted, the reservoir emptied and thoroughly cleansed, and a new outlet for future extensions of the works was put in. The attention of the Board was next directed to the enlargement and extension of the works to meet the growing demands of the citizens. The capacity of the reservoir was only enough, if full, to supply, when not pumping, the consumption for not more than two or three days; and, in case of a serious accident to the pumps, or the pipe between the pumps and reservoir, the city was liable to be left without water. The original purchase included a piece of land at the side of the reservoir, and this has been enlarged by the purchase from C. C. Little, Esq., of a small strip which will enable the Board to erect an additional reservoir, to contain, with the old one raised five feet higher, six million gallons.

The embankment for the new reservoir has already been thrown up, and the Board will be ready in the spring, if the means are furnished by the City Council, to push forward the work to an early completion.

Since the purchase, some considerable leaks and obstructions in the pipes have been discovered and remedied; since when a considerable improvement in the head and supply, in all parts of the city, has been noticeable.

The Board believe the works, including the street-mains, are now in good order.

When the new reservoir is completed and the head of water increased by five feet, we shall be able to furnish a somewhat larger quantity of water; but the present means for its conveyance are

altogether inadequate ; and at an early day the Board will present to the City Council a plan for the enlargement of the works, with estimates of cost, &c. We believe that the increased income which an abundant supply of water would command would fully pay the interest on the cost, the additional expenses, and the sum required by the Act to be paid to the sinking-fund each year.

CITY OF CAMBRIDGE.

In Common Council, Dec. 13, 1865.

Accepted, and ordered to be printed with the next City Documents.

Sent up for concurrence.

Attest: JOS. G. HOLT, *Clerk.*

In Board of Aldermen, Dec. 13, 1865.

Concurred.

Attest: JUSTIN A. JACOBS, *City Clerk.*

REPORT

OF

THE SUPERINTENDENT OF THE WATER WORKS.

OFFICE OF THE WATER WORKS,
CITY HALL, *Dec. 6th*, 1865.

To the Cambridge Water Board:

GENTLEMEN: — In compliance with the ninth section of the Ordinance providing for the Care and Management of the Cambridge Water Works, I herewith submit my first

ANNUAL REPORT.

The works were purchased and came into the possession of the City on the twenty-eighth of April last, at a cost of two hundred and ninety-one thousand, four hundred and eighty dollars, $291,480.00

Less cash assets in hands of Supt., April 28th, 1865, since paid into the Treasury, ...	1,411.95
	$290,068.05
Since which time a new and substantial granite well-room has been built at the pond, with other improvements there, costing, ...	1,338.13
A new outlet has been laid at the reservoir, at a cost of, ...	1,694.72
New main pipe has been laid in a part of Magazine, Webster, William, and Pearl streets, at a cost of,	862,03
A strip of land has been purchased to enlarge the reservoir lot, costing, ...	800.00
Paid on main pipe previously laid, ...	125.98
Interest due and payable on the original purchase, to December 1st, 1865, ...	7,062.79
Making the cost of the works at this time, , .	$301,951.70

The works, as the Board are aware, are not of sufficient capacity to supply the present consumers properly; and the question is for you to decide, whether we shall continue to increase the number of consumers, without an increase in the quantity of water.

It would seem that early provision should be made for an ample supply of water for the whole City.

The citizens generally are desirous of being supplied, and I have no doubt that any reasonable expenditure for that purpose will receive the approbation of the people, and increase the receipts accordingly.

The works are generally in good condition; various repairs and improvements have been made during the season, which it is believed will both improve the quality, and increase the quantity of the water.

RECEIPTS.

Received for water to Dec. 1, 1865,		$32,367.19

Expense Chargeable to the Above.

Superintendent's salary,	$625.00	
Clerk's "	250.00	
Engineer's "	566.68	
Office expenses,	277.55	
Repairs,	418.30	
Pumping account,	5,010.56	
Water rates refunded,	48.49	$7,196.58
Balance in favor of the works,		$25,170.61

The pumping account, which is made to include repairs upon machinery, and all ordinary expenses at the pond, except the Engineer's salary, is unusually large, from the fact that there was no fuel on hand at the time the City purchased the works, and now we have nearly a year's supply.

The coal used from May to October, was such as the market afforded, not always of the best quality.

It will be borne in mind that the City have had possession of the works but little more than half a year, and although the water rates

became due, and were payable for a year in advance within that time, still the receipts do not exhibit a full year's income, as many of our larger takers pay either quarterly or semi-annually.

It is estimated that the full year's receipts for water, would amount to	$36,000
And if no alteration is made in the water rates, it is estimated that the sum to be assessed in July, 1866, will amount to, ...	$38,000

which sum I have no doubt can be doubled within two years, if the City make early provision for supplying the water.

Number of abatements for a short supply of water 52, amounting to, ...	$313.50
For vacancy, 33, amounting to, ...	144.13
Water cut off from supply pipes, . .	27 times.
" let on to " " . .	27 "

The past season has been remarkably dry, and the pond has been lower than at any other time since the works were started. In consequence of the drought there has been a very free use of the water, particularly in watering gardens, and it is worth considering whether there should not be some limit to such use of the water.

In my judgment, the Ordinance providing for the care of the works needs revision, and I would ask your attention to the same.

The pumping engine, which has been in use since February last, is now laid off, and will doubtless require some repairs; the machinery otherwise is in good condition.

Average number of gallons of water pumped daily since May 1st, ...	974,032 gallons.
Average number of gallons pumped to Reservoir for each hundred pounds of coal burned, .	60,125 "
Average daily increased consumption over the corresponding months of last year, . .	32,417 "
Average daily consumption for each taker, .	331 "

Supply Account Since April 28th, 1865.

Expended for labor and stock, . .	$5,230.45	
Cash received on above account, . .	3,826.34	
Balance against the account, ...		$1,404.11
There is due on the above account,	$3,627.01	

Total cash receipts from all sources, from April 28, 1865, to December 1, 1865, ...	$37,605.48
Paid the City Treasurer, ...	37,605.48

RECAPITULATION.

Net cost of works April 28, 1865, .	$290,068.05	
Since expended, ...	11,883.65	
Excess of expense over income on Supply account, ...	1,404.11	
Aggregate cost of works, Dec. 1, 1865, . .		$303,355.81
Deduct income from water above expenditure to Dec. 1, 1865, ...		25,170.61
Net cost of works Dec 1, 1865, income being deducted,		$278,185.20

Appended to this report is a list of all the main pipe now laid, the streets through which it is laid, its size, length, &c. Also all the gates, stop-cocks, waste-gates, and blow-off pipes.

Respectfully submitted.

GEO. W. FIFIELD, *Supt.*

LOCATION OF MAIN PIPES.

STREETS.	SIZE.	LENGTH.
	Inches.	Feet.
From Engine-house into the Pond,	20	288
Duplicate, " "	20	18
From Engine-house to the Reservoir,	12	2300
" the Reservoir through Brattle to Mason Street,	12	3650
" " New Outlet,	24	63
Brattle, from Mason Street to Harvard Square,	10	
Harvard, from Harvard Square to Main Street,	10	
Main, " Harvard to Putnam,	10	11,780
Mason, " Brattle to Garden,	10	
Garden, " Mason to Cambridge,	10	
Cambridge, from Garden to Columbia,	10	
Prospect, from Cambridge to Somerville line,	10	400
" " Somerville line to Glass Works (Cement),	10	1000
Main, from Putnam to Magazine Street,	8	3000
Cambridge, from Columbia to Fifth,	8	3000
Main, from Magazine to Car Factory,	6	2600
Harvard, from Main to Hancock,	6	2500
Cambridge, from Fifth to Bridge,	6	2000
Garden and Waterhouse from Mason to North Avenue,	6	800
North Avenue, from Waterhouse, to Sacramento Street,	6	1765
" " from Sacramento to Holmes Chapel,	6	1500
Sacramento St., from North Avenue to Bleachery (Cement),	6	3790

The other pipes, mostly three and four inch, are distributed as follows: —

DISTRICT NO. ONE.

STREETS.	SIZE.	LENGTH.
	Inches.	Feet.
Appleton, from Brattle Street, North,	3	878
Ash, from Brattle Street to Gas Works,	4	1250
Brighton, from Brattle to Planing Mill,	4	969
Buckingham, from Craigie Street, North,	3	640
Craigie, from Brattle to Buckingham Street,	4	352
Dunster, from Harvard Square, South (Cement),	4	300
Green, from Putnam Street, East,	4	120
Harvard Square, to Church Street,	3	332
Holyoke Place, from Holyoke Street,	3	220
Holyoke Street, from South Street to Harvard,	4	709
Irving Street, from Cambridge St. North (Cement),	4	321
Irving Street, thence to Kirkland,	3	515
Kirkland Street, from Cambridge to Sumner Street,	4	1436
Kirkland Street, from Irving Street, West,	3	570
Linden Street, from Harvard Street, South,	3	172
Mt. Auburn, from Ash Street, East.	4	769
" " Holyoke Street, East,	4	1039
Mellen, from North Avenue, East,	3	480
North Avenue, from Holmes Chapel to the Bridge (Cement),	4	540
" " the Bridge to the Railroad Stable,	4	200

LOCATION OF MAIN PIPES (*Continued*).

STREETS.	SIZE.	LENGTH.
	Inches.	Feet.
Oxford, from Kirkland Street, North,	4	600
Phillips Place and Berkeley Street, from Mason Street,	4	1607
Palmer Street, from Brattle to Church,	4	378
Putnam Street, from Main Street (Cement),	4	597
" " continued,	4	388
Quincy Street, from Harvard Street, North,	3	982
Remington, from Main Street,	3	234
School Court, from Brattle Street,	3	200
South Street from Brighton Street to Holyoke Street,	4	553
Sumner, from Kirkland Street, South,	4	420
Trowbridge, from Harvard Street, North,	3	308
Ware, " " " "	3	300
DISTRICT NO. TWO.		
Auburn, from River Street, East,	4	567
" " Pearl " "	3	80
Austin, " Inman " "	3	236
" " Columbia Street, West,	3	508
Allston, " Pearl " East,	3	178
Broadway, from Moore to Hampshire Street,	4	800
" " Columbia Street, East,	3	312
" " Pioneer " to Skinner's Wharf,	3	901
" " Dana " East,	3	491
Bristol, " Market " North,	3	250
Brookline, " Main " South,	4	1828
Clark, " Washington Street to Chaney's Factory,	4	500
" " Hampshire " North,	3	234
Cherry, " Main to Harvard Street,	4	1150
Columbia, " " " Washington Street,	4	775
" " Washington Street to Worcester Street,	3	397
" " Harvard Street to Worcester Street,	4	252
" " " " North,	3	600
" " Cambridge Street, North,	3	598
Passage-way, from Bristol and Clark Streets,	3	224
Clinton, from Main Street, North,	3	578
Kinnaird, " River " West,	3	153
Dana, from Harvard to Broadway,	3	616
" " " South,	4	196
Davis, " " to Broadway,	4	400
Distilhouse, from Cambridge, North,	3	706
Erie, from Pearl to Magazine,	4	500
" " " East,	3	256
Essex, from Harvard, South,	3	1036
Elm, " Hampshire, North,	3	225
Ellsworth Av., from Broadway, North,	3	920
Fayette, from Cambridge, South,	3	1273
Front, " Main, East,	4	400
Franklin, from Brookline to Pearl,	4	457
" " " East,	3	108
Harvard, " Hancock to Davis,	4	4050
" " Davis to Pioneer,	4	2180
" " Cherry to Boardman,	3	100

LOCATION OF MAIN PIPES (*Continued*).

STREETS.	SIZE.	LENGTH.
	Inches.	Feet.
Hastings, from Moore, East,	4	800
Hampshire, from Prospect to Columbia,	4	1060
" " " West,	4	193
" " Clark, East,	3	143
Inman, from Main, North,	3	557
" " Cambridge, South,	3	697
Jay, from Western Av., West,	3	323
Lee, " Main, North,	4	397
Livermore, from Lincoln, South,	3	717
Lincoln, from Winsor, West,	4	290
Market, " Union to Bristol,	4	550
" " " West,	3	84
Maple Av., from Cambridge, South,	3	1111
Magazine, " Erie, South,	4	187
" continued South,	3	412
" Court, from Magazine, West,	3	480
" Street, from Erie, North,	6	846½
From Main to Osborn's Mill,	4	492
Moore, from Harvard to Hastings,	4	225
Norfolk, from Hampshire, South,	4	783
" continued South,	3	120
" from Main, North,	3	1250
" " Cambridge, North,	3	639
Pearl, " Franklin, South,	4	2174
Pleasant, from Main, South,	4	188
Pearl, " Franklin, North,	4	154
Pine, from School, North,	3	180
Pioneer, from Main to Broadway,	3	280
Prospect, " " to Hampshire,	4	2790
River, from Main to Fremont,	4	2530
" " Fremont (Cement), to Riverside,	4	560
" to Riverside (part Cement),	4	175
School, from near Pine to Winsor,	4	400
" " Winsor nearly to Main,	4	919
Soden, " Western Av., West,	3	253
Temple, from Main, North,	3	190
Tremont, from Hampshire, South,	3	1050
" " Cambridge, North,	3	171
Watson, from Pearl to Brookline,	3	522
Western Av., from Auburn to Howard,	4	927
Webster " " Somerville line, South,	3	170
Worcester " Columbia to Norfolk,	3	444
William St., " River, East,	3	647
Winsor, " Main to School,	4	250
" " Cambridge, South,	4	1909
" " " North,	3	362
" " Harvard to Market,	4	597
Washington, " Columbia, East,	4	2200
" " " West,	3	155
Webster, " Magazine "	4	295
Valentine, " Brookline "	3	240
Village, " Front, North,	3	353

LOCATION OF MAIN PIPES (*Continued*).

STREETS.			SIZE.	LENGTH.
			Inches.	Feet.
		DISTRICT NO. THREE.		
Bridge,	from	Craigie's Bridge to Somerville,	4	3369
Charles,	"	Third, West,	3	230
East,	"	North to Hall's wharf,	4	250
Fourth,	"	Cambridge to Spring,	4	898
"	"	Bridge, South,	4	149
Fifth,	"	Thorndike, South (Cement),	4	105
"	"	Cambridge to Winter,	4	450
"	"	Otis, North,	3	100
"	"	" South,	3	75
Gore,	"	Lambert to Fourth,	4	1460
Leighton Ct.,	"	East,	4	150
North Street,	"	Water to East,	4	775
Otis,	"	Third to Fourth,	4	434
"	"	Seventh to Fifth,	4	675
"	"	Fifth, East,	3	300
"	"	Second to First,	4	493
Second,	"	Cambridge to Jail,	4	506
Seventh,	"	" Thorndike (Cement),	4	528
Sixth,	"	Otis, North,	3	181
"	"	Thorndike, South,	4	245
Short,	"	North "	3	180
Seventh,	"	Thorndike "	3	135
Second,	"	Cambridge, North,	3	200
Spring,	"	Third, West,	3	1578
Thorndike,	"	" "	3	383
"	"	Seventh, East (Cement),	4	912
Third,	"	Otis, South,	4	1200
"	"	Cambridge, South,	3	158
"	"	" to Bridge,	4	500
Vine,	"	Third, West,	3	383
Winter,	"	Fifth to Bridge,	3	900
Water,	"	Bridge to North,	4	225
		MAIN PIPES IN SOMERVILLE.		
Bolton, from Oak,			3	288
Milk Row	from	Bleachery to Tube Works,	4	1899
Oak,	"	Prospect,	3	510
Webster Av.,	"	" (Cement),	4	339
"	"	continued,	3	860

Whole number of supply pipes now laid, . . . 2,191

Supplying 2,650 Families,
" 118 Stores and Offices,
" 10 School Houses,
" 3 Churches,
" 17 Garden Hydrants,
" 64 Stables,
" 6 Fish Markets,
" 5 Printing Offices,
" 39 Manufactories,
" 3 Public Houses,
" 2 Railroads,
" 1 Steam Tug,
" 5 Fire Engines,
" 1 Nursery,
" 3 Station Houses,
" 1 College,
" 4 Banks,
" 1 City Hall,
" 7 Bake-houses,
" 3 Bacon Works,

Making in all, 2,943 water takers.

87 new supply pipes have been laid since May 1st, 1865,
supplying 102 Families,
" 3 Stables,
" 1 Bake-house,
" 4 Garden Hydrants,
" 6 Manufactories,
" 8 Stores and Shops,
" 1 Hotel,
" 1 Printing Office,
" 1 Greenhouse,

Making, 127 new takers, and increasing the receipts, when all in use, about fifteen hundred dollars.

THE FOLLOWING GATES AND STOP-COCKS HAVE BEEN ESTABLISHED IN CONNECTION WITH THE PIPE:

STREETS.	NO.	SIZE.
		Inches.
At the Engine House	2	12
Near the Reservoir	1	12
" " "	1	24
Brattle and Mason	1	10
" near the Brattle House	1	10
" and Ash	1	4
" " Brighton	1	4
" " Craigie	1	4
" " Palmer	1	4
Cambridge and Prospect	1	10
" near Columbia	1	8
" and Winsor, South	1	4
" " Seventh	1	4
" " Fifth	1	4
" " Fourth	1	4
" " Third	1	4
Columbia and Washington	1	4
Craigie Bridge	1	3
Cambridge and Second	1	6
Front near Main	1	3
Harvard " Ware	1	6
" " Essex	1	4
Harvard Square and Dunster	1	4
Harvard and Main	1	4
Main " Dana	1	8
" " Columbia	1	6
" " Brookline	1	4
" " Cherry	1	4
" " Prospect	1	4
" " Putnam	1	4
" " River	1	4
Mason " Phillips Place	1	4
Magazine near Erie	1	4
Mt. Auburn " Holyoke	1	4
Milk Row (Somerville), near Bleachery	1	6
" " " " Tube Works	1	4
North Avenue near Shepard	1	6
" " " Sacramento	1	6
Winsor " Harvard	1	4
STOP-COCKS.		
Cambridge and Sumner	1	2
" " Irving	1	2
" " Maple Avenue	1	2
" " Fayette	1	2
" " Inman	1	2
" " Tremont	1	2
" " Norfolk	1	2
" " Winsor	1	2

BLOW-OFF PIPES.

STREETS.			NO.	SIZE.
				Inches.
Cambridge and	Third		1	2
" "	North Second		1	2
" "	Distilhouse		1	2
Columbia "	Worcester		1	2
Brattle "	Appleton		1	2
" "	School Court		1	2
Brighton "	Winthrop Place		1	2
Harvard "	Trowbridge		1	2
Holyoke "	Holyoke Place		1	2
Harvard "	Linden		1	2
" "	Quincy		1	2
" "	Ware		1	2
" "	Dana, North		1	2
" "	Dana, South		1	2
Main "	Remington		1	2
" "	Lee		1	2
" "	Pleasant		1	2
" "	Clinton		1	2
North Av. "	Mellen		1	2
North "	East		1	2
Pearl "	Auburn		1	2
" "	Watson		1	2
Oak "	Prospect		1	$1\frac{1}{2}$
	WASTE GATES.			
Bridge near the Bridge			1	3
Charles and Third			1	3
Gas House Yard			1	3
Front and Village			1	2
Osborn's Mill			1	2
	BLOW-OFF PIPES.			
Buckingham	near A. Stevens' house		1	$1\frac{1}{2}$
Allston	" J. Holmes' "		1	$1\frac{1}{2}$
Quincy	" Broadway		1	$1\frac{1}{2}$
Broadway	" E. Raymond's house		1	$1\frac{1}{2}$
Ware			1	$1\frac{1}{2}$
Norfolk	South of Harvard		1	$1\frac{1}{2}$
Main, Lower Port,	near Skinner's Wharf		1	$1\frac{1}{2}$
Maple	" Hovey's house		1	$1\frac{1}{2}$
Washington	" Railroad Junction		1	$1\frac{1}{2}$
Elm	" Welch's house		1	$1\frac{1}{2}$
Hampshire	North of Prospect		1	$1\frac{1}{2}$
Tremont	near Broadway		1	$1\frac{1}{2}$
Norfolk	North of Broadway		1	$1\frac{1}{2}$
Columbia	" " "		1	$1\frac{1}{2}$
Broadway	near Boardman		1	$1\frac{1}{2}$
Worcester	" Fiske's house		1	$1\frac{1}{2}$
Chestnut Place	" the end		1	$1\frac{1}{2}$
Hastings	" Burnhart's house		1	$1\frac{1}{2}$
Pine	" Buss & Merrill's "		1	$1\frac{1}{2}$

BLOW-OFF PIPES. (*Continued*).

STREETS.	NO.	SIZE.
		Inches.
Market near Boardman's house	1	1½
Hampshire " Finnegan's "	1	1½
Erie " Reardon's "	1	1½
Walnut Court " Walnut	1	1½
Valentine " Grady's house	1	1½
Spring East from Fourth	1	1½
" West " "	1	1½
Thorndike East " "	1	1½
" West " "	1	1½
Livermore near Hampshire	1	1½
Lincoln " Brown's house	1	1½
Brookline " Auburn	1	1½
Kirkland " Chamberlin's house	1	1½
Austin " Wheeler's "	1	1½
Columbia North from Cambridge	1	1½
Webster Av. " " "	1	1½
Sumner near T. P. Lerned's house	1	1½
Berkeley " Mrs. Everett's "	1	1½
Mellen end of Sands' Block	1	1½
Linden near Mrs. Brown's house	1	1½
Inman " Morse's Building	1	1½
Winthrop Place	1	1½
Holyoke " near Mrs. Harvey's house	1	1½
Mt. Auburn " Dakin & Metcalf's	1	1½
Mt. Auburn " Whitney's house	1	1½
Western Avenue " Howard	1	1½
Clark " Hampshire	1	1½
Norfolk from Cambridge North near Webster Avenue	1	1½
Green near Hampson's house	1	1½
Vine " Fourth	1	1½
Bridge " Train's Store	1	1½
North Second " Gore	1	1½
Trowbridge " W. T. Richardson's	1	1½
Fayette " High School House	1	1½
Essex " Whitney's Bakehouse	1	1½
William " Bradford's house	1	1½
Lee, opposite Capt. Ryder's "	1	1½
Temple " Dr. Wellington's "	1	1½
Spring " Rindge's Block	1	1½
Inman " Atwood's	1	1½
Soden " Laundry	1	1½
Thorndike " Train's house	1	1½
Charles " Fourth	1	1½
Third " Oil Works	1	1½
Ellsworth " Cambridge	1	1½
Bolton " Mitchell's house	1	1½
Fourth " Casey's "	1	1½
Clinton " Benj. Ring's "	1	1½
Kirkland " Prof. Child's "	1	1½
Magazine " Franklin	1	1½
Brookline " Erie	1	1½
Bridge " Leland Estate	1	1½
Washington " Newell Bent's house	1	1½
Village " Corner of State	1	1½

WATER-GATES.

1	24 inch
3	12 "
3	10 "
2	8 "
6	6 "
23	4 "
2	3 "

STOP-COCKS.

30	2 inch
1	1½ "

WASTE-GATES.

3	3 inch
2	2 "

BLOW-OFF PIPES.

73	1½ inch

RECAPITULATION.

63	feet			24	inch	iron pipe
306	"			20	"	" "
5950	"			12	"	" "
12180	"			10	"	" "
6000	"			8	"	" "
12011½	"			6	"	" "
60501	"			4	"	" "
34529	"			3	"	" "

CEMENT PIPE.

1000	feet	10	inch
3790	"	6	"
3070	"	4	"

CAMBRIDGE, August 12, 1865.

The following table exhibits the result of certain experiments made at the engine-house of the Cambridge Water Works, with various kinds of coal, and on different grates; the steam in the boiler, and temperature of water pumped into the boiler, being the same at the commencement of each experiment.

Kind of coal.	Weight.	Clinkers.	Ashes.	Grate.	Steam in Boiler.	Vacuum.	Speed of engine.	Temp. in well-room.	Tem. water pumped into boiler.	Revolutions.	Gallons pumped.	No. gal. per lb. Coal.
Lackawana	1 Ton	52 lbs.	211 lbs.	Fr. arched	40 to 44	27½	45 to 55	84½ deg.	192 deg.	37,194	1,264,596	632
Cumberland	1 "	21 "	164 "	"	" "	"	" "	"	"	39,468	1,341,912	670½
Sidney	1 "	131 "	— "	Flat grate	" "	"	" "	"	"	24,187	822,358	411
Lackawana	1 "	41 "	192 "	"	" "	"	" "	"	"	31,841	1,082,594	541
Lackawana	1 "	18½ "	194 "	Fr. arched	" "	"	" "	"	"	39,811	1,353,574	676½
Cumberland	1 "		130½ "	Flat	" "	"	" "	"	"	39,695	1,349,630	674½

GOVERNMENT

OF

THE CITY OF CAMBRIDGE.

1866.

MAYOR.

J. WARREN MERRILL.

ALDERMEN.

SUMNER ALBEE,
FRANCIS L. CHAPMAN,
CHARLES F. CHOATE,
GEORGE B. LOTHROP,
ALPHEUS MEAD,
JOHN N. MERIAM,
ASA P. MORSE,
EZRA PARMENTER,
JOHN L. SANDS,
JOHN M. TYLER.

Aldermen, by Wards.

Ward 1,	Aldermen	CHAPMAN and CHOATE.
" 2,	"	ALBEE and LOTHROP.
" 3,	"	PARMENTER and TYLER.
" 4,	"	MERIAM and MORSE.
" 5,	"	MEAD and SANDS.

COMMON COUNCIL.

JOHN S. MARCH, *President.*

Ward I.

CHARLES W. ELIOT, NATHAN G. GOOCH,
ARTHUR MERRILL.

Ward II.

CHARLES A. FISKE, JOHN S. MARCH,
ROBERT O. FULLER, AARON H. SAFFORD,
AUGUSTUS TOWNE.

Ward III.

NATHANIEL P. BROOKS, CHARLES J. McINTIRE,
WILLIAM DAILEY, NATHAN K. NOBLE,
LEWIS B. GUYER, BENJAMIN R. RAND.

Ward IV.

SAMUEL C. KNIGHTS, JOHN McDUFFIE,
WILLIAM H. LOUNSBURY, JOSEPH WHITTEMORE.

Ward V.

PHINEAS PARKER, SAMUEL F. WOODBRIDGE.

Clerk.

JOSEPH G. HOLT.

CITY CLERK.

JUSTIN A. JACOBS.

CITY MESSENGER.

ROLAND LITCHFIELD, JR.

COMMITTEES OF THE CITY COUNCIL.

JOINT STANDING COMMITTEES.

On Finance.

The MAYOR.

ALDERMEN.
Charles F. Choate,
Asa P. Morse.

COMMON COUNCIL.
The President,
Nathaniel P. Brooks,
Arthur Merrill,
Robert O. Fuller,
Augustus Towne,
Charles W. Eliot.

On Public Instruction.

ALDERMEN.
John M. Tyler,
John N. Meriam.

COMMON COUNCIL.
The President,
Aaron H. Safford,
Charles W. Eliot,
Nathan K. Noble.

On Ordinances.

ALDERMEN.
Sumner Albee,
Ezra Parmenter.

COMMON COUNCIL.
Charles J. McIntire,
William H. Lounsbury,
Phineas Parker.

On Accounts.

ALDERMEN.
Ezra Parmenter,
George B. Lothrop.

COMMON COUNCIL.
Samuel C. Knights,
Charles A. Fiske,
Benjamin R. Rand.

On Public Property.

ALDERMEN.
Asa P. Morse,
John M. Tyler.

COMMON COUNCIL.
Nathan G. Gooch,
William Dailey,
John McDuffie.

On the Almshouse.

ALDERMEN.
John L. Sands,
John M. Tyler.

COMMON COUNCIL.
Nathan K. Noble,
Samuel F. Woodbridge,
Samuel C. Knights.

On Roads and Bridges.

ALDERMEN.	COMMON COUNCIL.
Francis L. Chapman,	William Dailey,
John N. Meriam.	Phineas Parker,
	William H. Lounsbury.

On Reservoirs and Drains.

ALDERMEN.	COMMON COUNCIL.
Alpheus Mead,	Arthur Merrill,
Sumner Albee.	Joseph Whittemore,
	Benjamin R. Rand.

On Fuel.

ALDERMEN.	COMMON COUNCIL.
George B. Lothrop,	John McDuffie,
Alpheus Mead.	Lewis B. Guyer,
	Charles A. Fiske.

On Lamps.

ALDERMEN.	COMMON COUNCIL.
Alpheus Mead,	Joseph Whittemore,
Francis L. Chapman.	Aaron H. Safford,
	Lewis B. Guyer.

On Watering Streets.

ALDERMEN.	COMMON COUNCIL.
Ezra Parmenter,	Robert O. Fuller,
Asa P. Morse.	Benjamin R. Rand,
	Samuel F. Woodbridge.

On Printing.

ALDERMAN.	COMMON COUNCIL.
Charles F. Choate.	William H. Lounsbury,
	Nathan K. Noble.

On the Fire Department.

The MAYOR.	COMMON COUNCIL.
	The President,
ALDERMAN.	Augustus Towne,
George B. Lothrop.	Arthur Merrill,
	Charles J. McIntire.

STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

On Police.

The Mayor, George B. Lothrop,
Charles F. Choate, John L. Sands.

On the Fire Department.

The Mayor, George B. Lothrop,
Charles F. Choate, John N. Meriam.

On Roads and Bridges.

Francis L. Chapman, John N. Meriam,
Sumner Albee.

On Reservoirs and Drains.

Alpheus Mead, John M. Tyler,
Sumner Albee.

On Licenses.

Alpheus Mead, Asa P. Morse,
Ezra Parmenter.

On Health.

Charles F. Choate, John M. Tyler,
John L. Sands.

STANDING COMMITTEES OF THE COMMON COUNCIL.

On Elections and Returns.

Phineas Parker, Samuel C. Knights,
Benjamin R. Rand.

On Bills in the Second Reading.

Nathan G. Gooch, Lewis B. Guyer,
John McDuffie.

On Enrolled Ordinances.

Aaron H. Safford, Charles W. Eliot,
Nathan K. Noble.

ASSESSORS.

ARTEMAS Z. BROWN,
A. J. GREEN,
CHARLES H. SAUNDERS.

ASSISTANT ASSESSORS.

NATHANIEL D. SAWIN, BARNABAS BINNEY,
VARNUM S. HOLT, ISAAC C. HOLMES,
JAMES H. CUTTER.

AUDITOR OF ACCOUNTS.

S. P. HEYWOOD.

TREASURER.

JOSEPH WHITNEY.

COLLECTOR OF TAXES.

JOSEPH WHITNEY.

MEASURERS OF WOOD AND BARK.

James H. Fuller, Francis H. White,
Samuel S. Green, Benjamin J. Hoyt,
J. Henry Patch, I. P. Estes,
Dalphon Osborn, J. Henry Wyman.

FENCE-VIEWERS.

Samuel W. Dudley, Abiel Goss,
A. S. Waitt.

FIELD-DRIVERS.

Andrew Sproul, Benjamin F. Bridden,
Timothy Ames, Thomas Work,
Noah M. Cofran, Amori Benson,
Thomas D. Cook, James S. Milliken.

POUND-KEEPERS.

William Barnes, Thomas D. Cook.

FISH OFFICERS.

Thomas D. Cook, Jacob Hanscom,
Andrew Sproul.

HAY WEIGHERS.

Samuel S. Green, Ivory P. Estes,
William C. Brooks, Francis H. White,
Benj. F. Boyden, Joseph Burridge, Jr.

COAL WEIGHERS.

James F. Jefferds, John Henry Patch,
Joseph Burridge, Jr., Thos. McIntire, Jr.,
Wm. H. Raymond, Samuel S. Green,
J. Henry Wyman.

WEIGHER OF BOILERS AND HEAVY MACHINERY.

Joseph Burridge, Jr.

SEALER OF WEIGHTS AND MEASURES.

James A. Reid.

INSPECTOR OF CHARCOAL BASKETS.

James A. Reid.

INSPECTOR OF MILK.

James A. Reid.

MEASURER OF GRAIN.

James A. Reid.

SURVEYORS OF MECHANICS' WORK.

William S. Barbour, William A. Mason.

AUCTIONEERS.

John C. Farnham, John L. Porter,
William A. Munroe.

SCHOOL COMMITTEE.

Hon. J. Warren Merrill, Mayor, *ex officio*, *Chairman.*

WARD I.

Courtland W. Anable, Henry W. Muzzey.

WARD II.

Charles A. Skinner, Henry W. Warren.

WARD III.

Nathaniel Mighill, James F. Powers.

WARD IV.

Henry C. Badger, Sumner R. Mason.

WARD V.

James R. Morse, John N. Murdock.

SECRETARY.

W. W. Wellington.

OVERSEERS OF THE POOR.

The Mayor, *ex officio*, *Chairman.*

Benjamin F. Wyeth, Alonzo Stewart,
J. Watson Harris, William Hunnewell,
Martin L. Smith, Joseph H. Rice.

CLERK.

Justin A. Jacobs.

WARDEN OF THE ALMSHOUSE.

Jacob Hanscom.

PHYSICIAN OF THE ALMSHOUSE.

James R. Morse, M. D.

BOARD OF ENGINEERS.

CHIEF ENGINEER.

George B. Eaton.

ASSISTANT ENGINEERS.

First	Assistant,	Samuel M. Frye.
Second	"	Theo. Collamore.
Third	"	Thomas J. Casey.
Fourth	"	George O. Rollins.

CLERK OF THE BOARD.

Samuel M. Frye.

BOARD OF HEALTH.

The Mayor and Aldermen.

CAMBRIDGE CEMETERY.

COMMISSIONERS.

The Mayor, *ex officio*.

John C. Farnham,	Albert Stevens,
Daniel U. Chamberlin,	Charles Beck,
George S. Saunders,	Joseph H. Tyler.

SUPERINTENDENT.

Henry H. Eames.

SUPERINTENDENTS OF BURIAL GROUNDS.

Ward I.	Ward II.
Benj. F. Wyeth,	John Pear.

UNDERTAKERS.

Benj. F. Wyeth,	William Casey,
Roland Litchfield, Jr.,	Benjamin J. Hoyt,
Hiram Welch,	Amos P. Rollins,
Samuel F. Hunt,	Henry H. Eames,
John Pear,	Francis H. Stickney.

POLICE COURT.

STANDING JUSTICE.

John S. Ladd.

SPECIAL JUSTICES.

George W. Livermore, Henry W. Muzzey.

CLERK.

Thomas McIntire, Jr.

POLICE DEPARTMENT.

CHIEF OF POLICE.

Fordyce M. Stimson.

PRINCIPAL CONSTABLES.

District I.	District II.
Fordyce M. Stimson.	William Twist.

District III.

John L. Boynton.

CONSTABLES.

Fordyce M. Stimson,
William Twist,
John L. Boynton,
Hiram Welch,
John C. Burdakin,
Varnum S. Holt,
William F. Knowles,
Clark Moore.
Charles J. Adams,
James C. Nute,
James F. Jefferds,
Thomas Work,
Thos. McIntire, Jr.

POLICEMEN.

District I.

Timothy Ames,
Thomas D. Cook,
Benj. Kennard,
Micah W. Cook,
Andrew Sproul,
James M. Hilton,
Geo. A. Marston,
Noah M. Cofran,
James S. Milliken,
John S. Milliken,
Albert D. Cleveland.

District II.

Benjamin F. Bridden,
Abel A. Hildreth,
Lewis Sanger,
Jeremiah C. Cronan,
Charles L. Russell,
James H. Parks,
Fred. W. Hagar,
John Avery,
George Wood,
George S. Dudley.

District III.

Amori Benson, Jr.,
William Mullett,
Henry Kinsley,
Daniel Sherman,
Thomas D. Sanborn.

FIRE POLICE.

George S. Pike,
Moses Ricker.

TRUANT OFFICERS.

Fordyce M. Stimson,
John L. Boynton,
Abel A. Hildreth,
Benj. F. Bridden,
Timothy Ames,
Thomas D. Cook.

SPECIAL POLICEMEN.

George B. Eaton,
Theo. Collamore,
George O. Rollins,
Samuel M. Frye,
Thomas J. Casey,
Roland Litchfield, Jr.,
Austin K. Jones,
Thomas G. Bruce,
Henry H. Eames,
James F. Jefferds,
William Locklin,
Fred. Goodfellow,
Leonard Bacon,
James C. Nute,
Austin J. Coolidge,
Daniel L. Winsor,
Joseph G. Bicknell,
Albert E. Clark,
James M. Hilton,
Wm. D. Whittemore,
Joseph Foss,
Joseph W. Whittier,
Abner J. Osborn.

SURVEYORS OF HIGHWAYS.

The same persons who compose the Board of Mayor and Aldermen.

SUPERINTENDENT OF STREETS AND DRAINS.

George L. Cade.

SUPERINTENDENT OF LAMPS.

Roland Litchfield, Jr.

TRUSTEES OF THE DANA LIBRARY.

The Mayor, *ex officio*, *Chairman*.

ALDERMAN.	COMMON COUNCIL.
Sumner Albee,	Charles W. Eliot.

CITIZENS AT LARGE.

Charles Deane, Anson Hooker.

LIBRARIAN.

Miss C. F. Orne.

COMMISSIONERS OF THE BRIDGE FUND.

The Mayor, *ex officio*, *Chairman*.

The City Treasurer, *ex officio*, The Auditor of Accounts, *ex officio*.

ALDERMAN.

Asa P. Morse.

COMMON COUNCIL.

Robert O. Fuller.

TRUSTEES OF THE SANDERS TEMPERANCE FUND.

The Mayor, and President of the Common Council, *ex officio*.

ALDERMAN.

George B. Lothrop.

COMMON COUNCIL.

Arthur Merrill,
Aaron H. Safford.

TRUSTEES OF THE DOWSE INSTITUTE.

The Mayor, and President of the Common Council, *ex officio*.

Charles Deane, John C. Dodge,
W. W. Wellington.

REPRESENTATIVES IN GENERAL COURT.

George S. Saunders, George P. Carter,
Isaac S. Morse.

WARD OFFICERS.

Ward I.

WARDEN.

Chas. H. Saunders.

CLERK.

Henry H. Clark.

INSPECTORS.

William Wright,
Joseph Williams,
William J. Dolloff.

Wad II.

WARDEN.

George E. Ryder.

CLERK.

Clement March.

INSPECTORS.

George E. Sawyer,
Thomas J. Stevens,
John D. Sargent.

Ward III.

WARDEN.

Lorenzo Marrett.

CLERK.

John S. Wilson.

INSPECTORS.

Luther L. Parker,
Abbot R. Davis,
Thomas Grieves.

Ward IV.

WARDEN.

Gustavus A. Smart.

CLERK.

Joseph Child, Jr.

INSPECTORS.

Charles H. Spencer,
William F. Engley,
Daniel D. Leeds.

Ward V.

WARDEN.

Edward Mulliken.

CLERK.

Francis H. White.

INSPECTORS.

Andrew N. Wyeth,
Charles J. Teel,
Henry F. Whitney.

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